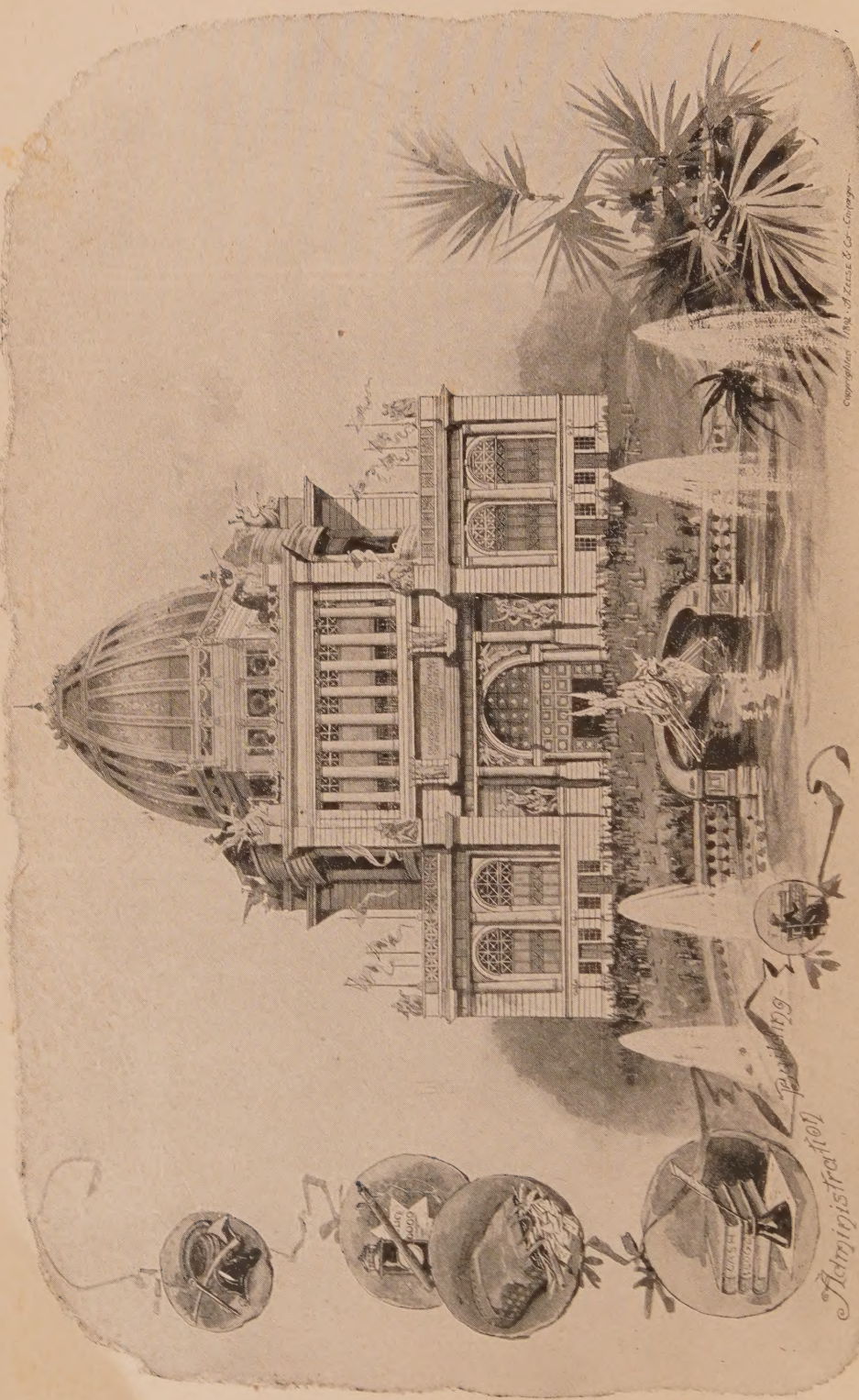


3 3028 00311 8413

WITHDRAWN
From the
Mishawaka - Penn - Harris Public Library



Copyright 1891, J. J. Zerbe & Co., Chicago.

THE
OFFICIAL DIRECTORY
OF THE
WORLD'S COLUMBIAN EXPOSITION

May 1st to October 30th, 1893.

A REFERENCE BOOK

OF EXHIBITORS AND EXHIBITS;
OF THE OFFICERS AND MEMBERS OF THE WORLD'S
COLUMBIAN COMMISSION, THE WORLD'S COLUMBIAN EXPOSITION
AND THE BOARD OF LADY MANAGERS; A COMPLETE HISTORY OF THE EXPOSITION.
TOGETHER WITH ACCURATE DESCRIPTIONS OF ALL STATE, TER-
RITORIAL, FOREIGN, DEPARTMENTAL AND OTHER
BUILDINGS AND EXHIBITS, AND

GENERAL INFORMATION CONCERNING THE FAIR.

MOSES P. HANDY,

Chief of the Department of Publicity and Promotion,
EDITOR.

GOPIOUSLY ILLUSTRATED.

CHICAGO :

W. B. GONKEY COMPANY, PUBLISHERS TO THE WORLD'S COLUMBIAN EXPOSITION

1893.

4705050
S 7857
MISHAWAKA - PENN PUBLIC LIBRARY
MISHAWAKA, INDIANA

Entered according to Act of Congress, in the year A. D. 1892, by

W. B. CONKEY COMPANY,

In the Office of the Librarian of Congress, at Washington, D. C.

W. B. CONKEY COMPANY
Printers and Binders
Chicago, Ill., - U. S. A.

2611
SHELVED
IN
BASEMENT

PREFACE.

When the United States Government took charge of the World's Columbian Exposition on the occasion of its dedication in October, 1892, a Board of Control was appointed to carry the great enterprise to a successful completion. This Board recognized at once the universal interest which was everywhere manifested in the undertaking and foresaw the necessity for providing a book of reference that would furnish the public with the information they were desirous of obtaining, which it was their right to have and the duty of the Exposition to furnish. Arrangements were accordingly made with that end in view and hence the present work.

The purpose has been to provide such data and information of a general kind as will enable any one to comprehend intelligently and in its fullness the greatest Exposition the world has ever known. Much care has been exercised in the preparation of the matter, so that it might be absolutely accurate, and in this connection the publishers are greatly indebted to the officials of the Exposition, the State Boards, State Commissioners, Lady Managers and Representatives of foreign countries.

Not only have the publishers fulfilled the conditions required by the government in furnishing the data and information required in such a work, but impelled by a sense of patriotism and pride, have gone further and illuminated its pages with the largest number of illustrations, executed in the highest style of art, that have graced the pages of any work of a like character.

It is believed that everybody, interested as they are in the World's Columbian Exposition, will hail The Official Directory with satisfaction and will look upon it as indispensable at this time, and that in years to come it will be referred to with pleasure and profit and will be found a valuable textbook and guide to any nation that in the future may conceive the plan or purpose of holding an exposition of a similar character and scope.

THE PUBLISHERS.



TABLE OF CONTENTS.

A	PAGE.
ADMINISTRATION BUILDING—	
Description of.....	193
Directory of Occupants	193, 194
Picture of Building.....	Frontispiece
ADMISSION FEE.....	194
ADMISSIONS AND COLLECTIONS BUILDING.....	194
AGRICULTURE—DEPARTMENT A—	
Scope and Plan of.....	495 to 497
Description of Building.....	495
Classification of Exhibits	505, 507
Diagram of Installation.....	499 to 504
Picture of Building.....	492
Portrait of Chief.....	495
Portrait of Secretary.....	opp. 158
Roster of Chief's Office.....	29
List of U. S. Exhibitors.....	509 to 588
List of Foreign Exhibitors.....	589 to 624
ALABAMA—	
National Commissioners from.....	74
National Board Lady Managers from.....	74
ALASKA—	
National Commissioners from.....	103
National Board Lady Managers from.....	103
Where Exhibits are Made.....	103
ANNEXES	194
ANTHROPOLOGICAL BUILDING—	
Description of.....	1091
Picture of.....	1090
AREA OF GROUNDS.....	194
AREA COVERED BY BUILDINGS.....	194
ARGENTINE REPUBLIC—	
Names of Commissioners from.....	105
Where Exhibits are Made.....	105, 106
Character of Exhibits.....	105, 106
ARIZONA—	
Territorial Board of Commissioners....	103
National Commissioners from.....	103
National Board Lady Managers from.....	103
Description of Building occupied jointly with New Mexico and Oklahoma	103
Picture of Building.....	817
Territorial Exhibits	705, 706

ARKANSAS—	PAGE.
State Board of Commissioners from..	74
National Commissioners from.....	74
National Board Lady Managers from	74
Description of Building.....	74
Picture of Building.....	362
ART—	
DEPARTMENT K—FINE ARTS—	
Scope and Plan of	875 to 877
Description of Building.....	875 to 877
Classification of Exhibits	881
Diagram of Installation	879, 880
Picture of Building.....	872
Portrait of Chief.....	875
Roster of Chief's Office.....	30
List of U. S. Exhibitors.....	885 to 921
List of Foreign Exhibitors.....	923 to 989
DEPARTMENT L—LIBERAL ARTS—	
Scope and Plan of.....	365 to 367
Classification of Exhibits.....	369 to 374
Diagram of Installation.....	228 to 230
Portrait of Chief.....	365
Roster of Chief's Office.....	30
List of U. S. Exhibitors.....	375 to 394
List of Foreign Exhibitors	395 to 418
ART INSTITUTE.....	194
ATTRACTIONS FOR WHICH A FEE IS CHARGED	194 to 196
AUSTRIA—	
Names of Commissioners from.....	106
Where Exhibits are made.....	106
Character of Exhibits.....	106
List of Exhibitors.....	263, 264, 265, 266 395, 396, 462, 589, 667, 756, 805, 861, 923, 924, 1102, 1115

B	
BATTLE-SHIP.....	149
BELGIUM—	
Names of Commissioners from.....	107
Where Exhibits Are Made.....	107
Character of Exhibits.....	107
List of Exhibitors.....	266, 267, 268, 396, 462 590, 756, 805, 861, 925, 926, 927, 928, 1115

BOARDS OF—		Page.	C		Page.
Directors.....		24	CALIFORNIA—		
Reference and Control.....		26	State Board of Commissioners.....		74
Lady Managers Nominated by Commissioners-at-Large.....		177	State Board of Lady Managers.....		74
Management and Control United States Government Exhibit.....		28	National Commissioners from.....		74
BONDED WAREHOUSE.....		196	National Board Lady Managers from.....		74
BRAZIL—			Description of Building.....		74
Names of Commissioners from.....		107	Picture of Building.....		354
Description of Building.....		107	State Exhibits.....	519, 520, 521, 707, 847, 848, 849, 850, 851	
Where Exhibits are Made.....		108	CANADA—		
Character of Exhibits.....		108	Names of Commissioners from.....		109
Picture of Building.....	opp.	108	Description of Building.....		109
List of Exhibitors.....		929	Where Exhibits are Made.....		109
BRIDGES.....		196	Picture of Building.....	opp.	108
BRITISH GUIANA—			List of Exhibitors.....	269, 270, 271, 397, 398, 462, 463, 591, 592, 667, 757, 805, 806, 861, 862, 930, 931, 932, 1102, 1115	
Name of Commissioner from.....		108	CAPE COLONY—		
Where Exhibits are Made.....		108	Names of Commissioners from.....		110
Character of Exhibits.....		108	Where Exhibits are Made.....		110
List of Exhibitors.....		930	Character of Exhibits.....		110
BRYAN, THOMAS B.—			CASINO.....		197
Sketch of.....		163	CEYLON—		
Portrait of.....	opp.	163	Names of Commissioners from.....		110
BUILDING MATERIAL.....		196	Description of Building.....		111
BUILDINGS—			Where Exhibits are Made.....		112
Area of.....		194	Character of Exhibits.....		112, 113
Description of (See States, Territories, Foreign Countries and General Information).			Picture of Building.....	opp.	110
BULGARIA—			List of Exhibitors.....	271, 272, 398, 463, 592, 757, 806, 862, 1102	
Name of Commissioner from.....		108	CHIEFS OF DEPARTMENTS—		
Where Exhibits are Made.....		108	Their Duties, Functions and Assistants.....		164, 166
Character of Exhibits.....		108	Roster of their Offices.....		29, 30
BUREAU OF—			CHILDREN'S BUILDING—		
ADMISSIONS AND COLLECTIONS—			Description of.....		179
Roster of Officials of.....		28	Picture of.....	opp.	196
Superintendent Admissions.....		170	CHILI—		
Superintendent Collections.....		172	Name of Representative.....		113
INFORMATION.....		166	Where Exhibits Are Made.....		113
MUSIC—			Character of Exhibits.....		113
Roster of Officials.....		30	CHORAL (FESTIVAL) HALL.....		198
Musical Director.....		367	CLIFF DWELLERS.....		196
Portrait of Musical Director.....	opp.	161	COLD STORAGE BUILDING.....		197
Choral Director.....		367	COLOMBIA—		
Portrait of Choral Director.....	opp.	161	Names of Commissioners from.....		113
Portrait of Secretary.....	opp.	161	Description of Building.....		113
Program.....		201	Picture of Building.....	opp.	110
PUBLIC COMFORT—			COLORADO—		
Scope and Plan of the Bureau.....	183, 184		State Board of Commissioners.....		75
Provisions made for Visitors.....		184	National Commissioners from.....		75
Hotel and Boarding Accommodations.....		183	National Board Lady Managers from.....		75
Restaurants and Cafes.....		183	Description of Building.....		75
Drinking Water.....		184	Picture of Building.....		419
Check-Rooms.....		184	State Exhibits.....	521, 522, 523, 707, 708, 851, 852	
Roster of Officials of.....		28	COLUMBUS, CHRISTOPHER—		
BURNHAM, D. H.—			Life of.....	37 to 40	
Sketch of.....		172	Portrait of.....		36
Portrait of.....	opp.	172	Relics of.....		140, 142
(See Department of Works and World's Columbian Exposition.)			COLUMBIAN GUARD—		
			Duties of.....		196
			Uniform Worn.....		197

	Page.
Officers of.....	33
Portrait of Commandant.....opp.	174
COMPARED WITH PARIS AND PHILADELPHIA EXPOSITIONS.....	197
COMMISSIONERS—	
FROM THE STATES AND TERRITORIES—	
(See State and Territorial Participation).	
NATIONAL—	
Roster of Officers of.....	23
Commissioners-at-Large.....	23
Alternates.....	23
Commissioners of the District of Columbia.....	23
Alternates.....	23
STATE AND TERRITORIAL—	
(See State and Territorial Participation.)	
COMMISSION, WORLD'S COLUMBIAN—	
Designation by Act of Congress.....	159
Official Seal.....	159
Sections of Act of Congress Defining	
Duties, Powers, Compensation.....	159
Standing Committees of.....	160
Groups and Classes.....	160
President of.....	161
Sketch of Hon. Thos. W. Palmer.....	58
Portrait of Hon. Thos. W. Palmer, opp.	58
Vice-Presidents of.....	161
Secretary of.....	161
Sketch of Mr. John T. Dickinson.....	59
Portrait of Mr. John T. Dickinson, opp.	23
Chief Clerk to Secretary.....	161
Portrait of Mr. R. A. Rogers.....opp.	159
How the Board of Lady Managers was	
Created.....	161
Sergeant-at-Arms of.....	162
Appointment by President of the	
United States.....	159
Convened by Secretary of State.....	57
Temporary and Permanent Organization.....	57
Roster of Officers.....	23
Office of.....	193
Commissioner-at-Large.....	162
Director-General.....	161, 162
Election of.....	61, 62
His Duties and Powers.....	161, 162
Sketch of Col. George R. Davis.....	62, 63
Portrait of Col. George R. Davis, opp.	62
Private Secretary to Director-General.	162
Secretary to Director-General.....	162
Chief Clerk to Director-General.....	162
Secretary of Installation.....	162
Special Agent Foreign Exhibits.....	162
CONCESSIONS, RULES REGARDING.....	212

	Page.
CONNECTICUT—	
State Board of Commissioners.....	75
State Board of Lady Managers.....	76
National Commissioners from.....	76
National Board Lady Managers from	76
Description of Building.....	76
Picture of Building.....	359
State Exhibits.....	524, 525, 708
CONVENT OF LA RABIDA—	6
Description of.....	197
Picture of.....opp.	138
COSTA RICA—	
Names of Commissioners from.....	113
Description of Building.....	113
Picture of Building.....opp.	116
Where Exhibits Are Made.....	113
Character of Exhibits.....	113
COUNCIL OF ADMINISTRATION—	
Duties and Powers of.....	170
Members of.....	26
Portrait of Mr. A. W. Sawyer, Secretary of.....opp.	170
CUBA—	
(See Spain).	
CURACAO—	
Name of Commissioner from.....	114
Where Exhibits Are Made.....	114
Character of Exhibits.....	114

D

DAILY COLUMBIAN.....	197
DAIRY EXHIBIT—	
Description of Building.....	496
When Exhibits Begin.....	496
Diagram of Installation.....	503, 504
List of Exhibitors.....	511
DAVIS, GEORGE R.—	
Sketch of.....	62, 63
Portrait of.....opp.	62
(See World's Columbian Exposition.	
DEDICATION CEREMONIES.....	66, 68
DELAWARE—	
State Board of Commissioners.....	76
National Commissioners from.....	76
National Board Lady Managers from	76
Description of Building.....	76
Picture of Building.....	488
DENMARK—	
Names of Commissioners from.....	114
Where Exhibits Are Made.....	115
Character of Exhibits.....	115
List of Exhibitors.....	272, 273, 274, 398
399, 464, 593, 758, 806, 862, 933, 934, 935, 1103	
DEPARTMENT OF ADMISSIONS.....	170
DEPARTMENT OF COLLECTIONS.....	172
DICKINSON, JOHN T.—	
Sketch of.....	59
Portrait of.....opp.	23

	Page.
Portrait of Mr. Richard Lee Fearn, opp.	161
Roster of Chief's Office	30
Assistant Secretary	165
Interpreter	165
Latin-American Bureau	165, 166
(For Commissioners, Description of Buildings, List of Exhibitors, Character of Exhibits, etc., of the Foreign Countries Participating, see respective Countries in Alphabetical Order.)	
FOREIGN PARTICIPATION	105
FORESTRY—	
Scope and Plan of Department	1107
Description of Building	1107
Classification of Exhibits	1109, 1110
Diagram of Installation	1108
Roster of Officers	30
Picture of Building	1106
Portrait of Superintendent	1107
List of U. S. Exhibitors	1111 to 1114
List of Foreign Exhibitors	1115, 1116
FOUNTAINS	198
FRANCE—	
Names of Commissioners from	116
Where Exhibits are Made	118, 119
Description of Building	116, 117
Picture of Building	opp. 116
Exhibits and Buildings of Colonies of	923
List of Exhibitors	668, 669, 935, 936,
937, 938, 939, 940, 941, 942, 943, 944,	
945, 946, 947, 948	
G	
GAGE, LYMAN J—	
Sketch of	55
Portrait of	opp. 55
GENERAL INFORMATION	193 to 205
GEORGIA—	
National Commissioners from	77
National Board Lady Managers from ..	77
GERMANY—	
Names of Commissioners from	119
Where Exhibits are Made	121, 122
Description of Building	119, 120
Picture of Building	opp. 122
Miscellaneous Information Pertaining to	122, 123
List of Exhibitors	275, 276, 277, 278,
279, 280, 281, 282, 283, 284, 285, 286,	
287, 288, 289, 290, 399, 400, 401, 402,	
403, 404, 405, 406, 407, 408, 409, 410,	
464, 465, 466, 594, 595, 596, 669, 670,	
758, 759, 807, 808, 862, 863, 864, 865,	
866, 867, 948, 949, 950, 951, 952, 953,	
954, 955, 956, 957, 1103, 1115	
GONDOLAS	196

	Page.
GRAND CENTRAL COURT	198
GRADING AND DREDGING	198
GREAT BRITAIN—	
Names of Commissioners from	123, 124
Where Exhibits are Made	125, 126
Character of Exhibits	125, 126
Description of Building	124
Picture of Building	472
List of Exhibitors, 290, 291, 292, 293,	
294, 295, 410, 411, 412, 466, 467, 596,	
597, 598, 671, 760, 761, 808, 809, 810,	
868, 957, 958, 959, 960, 961, 962, 963,	
934, 965, 966, 967, 968, 969, 970, 1073,	
1074, 1075, 1076, 1077, 1078, 1079,	
1080, 1081, 1082, 1083, 1084, 1085, 1115	
GREECE—	
Names of Commissioners from	127
Where Exhibits are Made	127
Character of Exhibits	127
GROUNDS, AREA OF	194
GUATEMALA—	
Names of Commissioners from	127
Description of Building	127
Picture of Building	opp. 126

H

HANDY, MOSES P.—	
Sketch of	189, 190
Portrait of	opp. 189
(See Department O—Publicity and Promotion.)	
HAYTI -	
Names of Commissioners from	127
Where Exhibits are Made	128
Description of Building	128
Picture of Building	opp. 126
HIGINBOTHAM, H. N.—	
Sketch of	167
Portrait of	opp. 167
(See World's Columbian Exposition.)	
HISTORY OF THE EXPOSITION—	
When Chicago was First Proposed in Print as the Location of the Fair—	
Clubs meet and Organize—Mayor's Message to the Council—Committee of 200—First Public Meeting of Citizens—The Bryan Resolutions—First Executive Committee—Sub-Committee of the Executive Committee—Organization of the Finance Committee—Agitation Committee—Application for the Charter—Representatives of Societies Organize—The Guarantee Fund—Queen Isabella Association Organize—Other Cities Compete for the Prize of Location—Bills Introduced in Congress—Vote in Congress on the Location—	

	Page.		Page.
Rejoicing in Chicago Over the Victory—The \$5,250,000 Subscribed—Report of the Special Committee of the House of Representatives—The Minority Report—First Meeting of Subscribers—Election of the First Board of Directors—First Meeting of the Board of Directors—Sketch of Mr. Lyman J. Gage, First President—Work of Organization Mapped out—Committee on Ways and Means—Co-operation of the State Legislature—President Harrison appoints National Commissioners—Commission Convened by Secretary of State Blaine—Temporary and Permanent Organization—Sketches of Hon. Thomas W. Palmer, President of the Commission; Mr. John T. Dickinson, Secretary—Second Session of the Commission—Selection of the Site for the Exposition—Election of the Director-General—Sketch of Director-General Davis—Chicago City Council Asked to Issue \$5,000,000 in Bonds—Legislature Takes Action on the Subject—The Dedictory Ceremonies—Activity in the Work at the Grounds—The Financial Affairs of the Exposition—Task of Installation—Opening Ceremonies.	41-72	National Board Lady Managers from	77
HONDURAS—		Description of Building.....	77
Representatives of.....	128	Picture of Buildings.....	629
Where Exhibits are Made.....	128	State Exhibits ..526, 527, 709, 710, 711,	
Character of Exhibits.....	128	712, 713, 853, 854	
HORTICULTURE—DEPARTMENT B—		ILLINOIS—	
Scope and Plan of	829 to 832	State Board of Commissioners.....	78
Description of Building	829	Illinois Woman's Board.....	78
Classification of Exhibits.....	835, 836	National Commission.....	78
Diagram of Installation	833, 834	National Board Lady Managers from	78
Picture of Building	828	Residents of Chicago Appointed by the	
Portrait of Chief.....	829	President.....	78
Roster of Chiefs Office.....	29	Description of Building.....	79
List of U. S. Exhibitors.....	837 to 860	What is Exhibited in the Building....	79
List of Foreign Exhibitors.....	861 to 870	Exhibits Made in Departmental Build- ings ..527, 528, 529, 530, 531, 854, 855,	856
HOTELS—		Exhibit of the Historical and Scientific Committee	82
(See Bureau of Public Comfort.)		Picture of Building	635
HOW TO REACH THE GROUNDS—		IMPORTATION, RULES REGARDING	210
Illinois Central Trains	199	INDIA—	
Elevated Railroad.....	199	Name of Commissioner from.....	128
Cable Cars.....	199	Description of Building.....	128
Lake Boats.....	199	Picture of Building.....	opp. 131
Railway Trains from West Side sta- tions	199	Character of Exhibits.....	129
IDAHO—		List of Exhibitors.....	274, 275, 295, 598, 599, 600
State Board of Commissioners.....	77	INDIANA—	
National Commissioners from.....	77	State Board of Commissioners.....	83
		National Commissioners from.....	83
		National Board Lady Managers from	83
		Description of Building	83
		Picture of Building.....	640
		State Exhibits	531, 532, 713, 714, 1111
		INDIAN SCHOOL	199
		INFORMATION, BUREAU OF	166
		INSTALLATION OF EXHIBITS.....	162
		INSURANCE	199
		INTERIOR WATER-WAYS.....	199
		INTRAMURAL ELEVATED RAIL- ROAD	199
		IOWA—	
		State Board of Commissioners.....	84
		State Board of Lady Managers.....	84
		National Commissioners from.....	84
		National Board Lady Managers from.	84
		Picture of Building	823
		Description of Building.....	84
		State Exhibits	533, 534, 714, 715
		ISABELLA—	
		Portrait of.....	36
		ITALY—	
		Names of Commissioners from....	129, 130
		Where Exhibits are Made.....	130
		Character of Exhibits.....	130

	Page.		Page.
List of Exhibitors, 296, 297, 298, 299, 412, 413, 414, 467, 601, 602, 671, 761, 762, 810, 868, 869, 974, 975, 976, 977, 978, 1085, 1103, 1115		LA RABIDA, CONVENT OF.....	197
		LEATHER AND SHOE TRADES BUILD- ING—	
		Plan and Scope of.....	200
		Picture of Building.....	opp. 200
		Portrait of the Superintendent, Mr. Clinton Collier.....	opp. 158
		List of Exhibitors.....	260, 261, 262
		LEGISLATION—	
		(See History of the Exposition.)	
		LIBERAL ARTS—DEPARTMENT L—	
		Scope and Plan of.....	365
		Classification of Exhibits.....	369 to 374
		Diagram of Installation.....	228 to 230
		Portrait of Chief.....	365
		List of U. S. Exhibitors.....	375 to 394
		List of Foreign Exhibitors.....	395 to 418
		LIBERIA—	
		Names of Commissioners from.....	134
		Where Exhibits are Made.....	134
		Character of Exhibits.....	134
		LIFE OF COLUMBUS.....	37 to 40
		LIFE SAVING STATION—	
		(See United States Government Exhibit.)	
		LIVE STOCK—DEPARTMENT C—	
		Scope and Plan of.....	1117
		Description of Arena.....	1117
		When Exhibits are to be Made.....	1117
		Character of Exhibits.....	1117
		LOUISIANA—	
		State Board of Commissioners.....	86
		Ladies' Auxiliary Board of Commis- sioners.....	86
		National Commissioners from.....	86
		National Board Lady Managers from.....	86
		Description of Building.....	86
		Picture of Building.....	1001
		State Exhibits.....	587, 716
		M	
		MACHINERY—DEPARTMENT F—	
		Scope and Plan of.....	441 to 443
		Description of Building.....	441
		Classification of Exhibits.....	447 to 449
		Diagram of Installation.....	445, 446
		Portrait of Chief.....	441
		Picture of Building.....	436
		Roster of Chief's Office.....	29
		List of U. S. Exhibitors.....	451 to 461
		List of Foreign Exhibitors.....	462 to 468
		MACHINE SHOP.....	200
		MACMONNIES FOUNTAIN.....	198
		MAINE—	
		State Board of Commissioners.....	86
		National Commissioners from.....	86
		National Board Lady Managers from.....	86
		Description of Building.....	86
		J	
JAMAICA—			
Names of Commissioners from.....	133		
Where Exhibits are Made.....	133		
Character of Exhibits.....	133		
List of Exhibitors, 299, 414, 602, 603, 604, 762, 869, 870, 978			
JAPAN—			
Names of Commissioners from.....	131		
Description of Building.....	131		
Where Exhibits are Made.....	132		
Character of Exhibits.....	132, 133		
Picture of Building.....	opp. 131		
List of Exhibitors, 300, 301, 302, 303, 304, 306, 307, 308, 309, 310, 311, 312, • 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 415, 416, 468, 605, 606, 607, 608, 609, 610, 762, 763, 810, 870, 976, 978, 1086, 1087, 1115, 1116			
JOHORE—			
Names of Commissioners from.....	133		
Where Exhibits are Made.....	133		
Character of Exhibits.....	133		
K			
KANSAS—			
State Board of Commissioners.....	85		
National Commissioners from.....	85		
National Board Lady Managers from.....	85		
Description of Building.....	85		
Picture of Building.....	1033		
KENTUCKY—			
State Board of Commissioners.....	85		
National Commissioners from.....	85		
National Board Lady Managers from.....	85		
Description of Building.....	85		
Picture of Building.....	997		
State Exhibits.....	534, 535, 536, 715, 716, 856, 857, 858, 1111, 1112, 1113		
KOREA—			
Names of Commissioners from.....	133, 134		
Where Exhibits are Made.....	134		
Character of Exhibits.....	134		
KRUPP GUN EXHIBIT.....	199		
L			
LADY MANAGERS, BOARD OF—			
Roster of Officers.....	25		
Plan and Scope of.....	177 to 179		
Members from City of Chicago.....	78		
Members from District of Columbia.....	177		

TABLE OF CONTENTS.

7

	Page.
NEW HAMPSHIRE—	
State Board of Commissioners.....	91
National Commissioners from	91
National Board Lady Managers from..	91
Description of Building	91
Picture of Building	991
State Exhibits	545 to 547, 730

NEW JERSEY—	
State Board of Commissioners.....	91
National Commissioners from	91
National Board Lady Managers from	91
Description of Building	91
Picture of Building	487

NEW MEXICO—	
Territorial Board of Commissioners ..	103
National Commissioners from	103
National Board Lady Managers from	103
Description of Building Occupied	
Jointly with Oklahoma and Arizona.	103
Picture of Building	817
State Exhibits	731, 732

NEW SOUTH WALES—	
Names of Commissioners from	135
Description of Building	135, 136
Where Exhibits are Made.....	136
Picture of Building	opp. 136
List of Exhibitors.....	979 to 982, 1087

NEW YORK—	
State Board of Commissioners.....	92
Judicial District Commissioners	92
Board of Women Managers	93
Officers Board of Women Managers..	93
National Commission from	93
National Board Lady Managers from	93
Description of Building	94
Picture of Building	684
State Exhibits 547 to 556, 732 to 734, 859, 860	

NORTH CAROLINA—	
State Board of Commissioners.....	94
National Commissioners from.....	95
National Board Lady Managers from..	94
State Exhibits 556 to 563, 735 to 739, 860, 1023	

NORTH DAKOTA—	
State Board of Commissioners.....	95
National Commissioners from	95
National Board Lady Managers from..	95
Description of Building	95
Picture of Building	998
State Exhibits.....	563, 564

NORWAY—	
Names of Commissioners from	136
Description of Building	136
Where Exhibits are Made.....	136, 137
Picture of Building	opp. 136
Character of Exhibits	136, 137
List of Exhibitors, 329, 330, 417, 468, 614,	
671, 763, 810, 870, 983, 984, 1104	

	Page.
OKLAHOMA—	
Territorial Board of Commissioners ..	103
National Commissioners from	103
National Board Lady Managers from	103
Description of Building occupied	
jointly with Arizona and New	
Mexico.....	103
Picture of Building	817

OHIO—	
State Board of Commissioners.....	95
National Commissioners from	95
National Board Lady Managers from	95
Description of Building	95
Picture of Building	814
State Exhibits.....	564, 565, 566, 739, 1113

ORANGE FREE STATE—	
Name of Commissioner from.....	137
Where Exhibits are Made.....	137
Character of Exhibits.....	137

OREGON—	
State Board of Commissioners.....	96
National Commissioners from	96
National Board Lady Managers from	96
Where Exhibits are Made.....	96

ORIGIN OF THE IDEA OF A WORLD'S FAIR—	
(See History of the Exposition.)	
OTHER INTERNATIONAL EXPOSITIONS—	
Facts Concerning Eight of them.....	201

P

PALMER, MRS. POTTER—	
Sketch of.....	182
Portrait of.....	opp. 182

PALMER, THOMAS W.—	
Sketch of.....	58
Portrait of.....	opp. 58

PARAGUAY—	
Names of Commissioners from.....	137
Where Exhibits are Made	137
Character of Exhibits.....	137

PASSES	171
---------------------	------------

PECK, FERDINAND W.—	
Sketch of.....	168
Portrait of.....	opp. 24

PENNSYLVANIA—	
State Board of Commissioners.....	96
National Commissioners from.....	96
National Board Lady Managers from	96
Description of Building	96
Picture of Building	482
State Exhibits.....	566 to 568, 740 to 743

	Page.
PERSIA—	
Names of Commissioners from.....	137
Where Exhibits are Made	137
Character of Exhibits.....	137
PERISTYLE	201
PHILIPPINE ISLANDS—	
(See Spain.)	
PIERS.....	202
POLISH BUILDING.....	202
POMOLOGICAL EXHIBIT—	
(See Department B.—Horticulture.)	
PORTUGAL—	
Names of Commissioners from.....	137
Where Exhibits are Made	137
Character of Exhibits.....	137
POWER-HOUSE	202
PRELIMINARY ARRANGEMENTS	
FOR THE EXPOSITION—	
(See History of Exposition.)	
PREFACE	3
PRE-HISTORICAL	34
PRISONS EXHIBIT—	
(See Department N.—Ethnology.)	
PRIVATE BOARDING-HOUSES.....	183
PUBLIC COMFORT—	
Bureau of	183
Picture of Building	opp. 196
PUBLICITY AND PROMOTION—DE-	
PARTMENT O—	
Scope and Plan of.....	185 to 189
Portrait of Chief	opp. 189
Chief Clerk of Department.....	166
Potrait of Mr. J. P. Holland.....	opp. 161
Roster of Chief's Office.....	30
"PUCK" BUILDING.....	202
PUMPING WORKS.....	202

R

RAILWAY ENTRANCE—
(See Terminal Tracks.)

RAILWAY EXHIBIT—
(See Department G.—Transportation Exhibits.)

RECEIPTS AND DISBURSEMENTS—
(See History of the Exposition.)

RED CROSS SOCIETY—
(See Medical Director.)

REHAN, MISS ADA—
Statue of ----- 90

REPUBLIC—
Statue of ----- 203

RESTAURANTS—
(See Bureau of Public Comfort.)

	Page.
RHODE ISLAND—	
State Board of Commissioners.....	97
National Commissioners from.....	97
National Board Lady Managers from.....	97
Description of Building.....	97
Picture of Building.....	423
ROOMS—	
(See Bureau of Public Comfort.)	
RUSSIA—	
Names of Commissioners from.....	137, 138
Where Exhibits Are Made.....	138
Character of Exhibits.....	138, 139
RULES AND REGULATIONS.....	208
S	
SAINT THOMAS—	
Name of Commissioner from.....	142
Where Exhibits are Made.....	142
Character of Exhibits.....	143
SALE OF LIQUOR.....	202
SANITATION—	
(See Medical Director.).....	175
SAN DOMINGO—	
(See Department of State, United States Government Exhibit.).....	154
SAWMILL EXHIBIT.....	202
SCHOOL EXHIBITS—	
(See Department L—Liberal Arts.)	
SCULPTURE.....	203
SERVICE BUILDING—	
(See Miscellaneous Buildings.)	
SEWERAGE.....	202
SHOE AND LEATHER TRADES BUILDING—	
Plan and Scope of.....	200
Picture of Building.....	opp. 200
Portrait of Superintendent.....	opp. 150
List of Exhibitors.....	260, 261, 262
SIAM—	
Names of Commissioners from.....	139
Where Exhibits are Made.....	139
Character of Exhibits.....	139
List of Exhibitors.....	331, 332, 1089
SIBERIAN EXHIBIT—	
(See Russia.).....	
SITE OF EXPOSITION—	
(See History of Exposition.).....	48
SMITHSONIAN INSTITUTION EXHIBIT	
(See United States Government Exhibit.).....	149
SOUTH CAROLINA—	
National Commissioners from.....	97
National Board Lady Managers from.....	97
Where Exhibits are Made.....	97
State Exhibits.....	743

	Page.		Page.
WORLD'S COLUMBIAN COMMISSION—		WORLD'S CONGRESS AUXILIARY—	
Designation by Act of Congress.....	159	Officers of.....	26
Official Seal.....	159	WORKS, DIRECTOR OF.....	172
National Commissioners.....	159	WYOMING—	
Sections of Act of Congress Defining		State Board of Commissioners.....	102
Duties, Powers and Compensation.....	159	National Commissioners from.....	102
Standing Committees of.....	160	National Board Lady Managers from.....	102
Groups and Classes.....	160	Description of Building.....	102
President of.....	161	Picture of Building.....	771
Vice-Presidents of.....	161	State Exhibits.....	587, 588, 754, 755
Secretary of.....	161		
Chief Clerk to Secretary of.....	161		
Board of Lady Managers.....	161		
Director-General.....	161, 162		
Private Secretary to Director-General.....	162		
Secretary to Director-General.....	162		
Chief Clerk to Director-General.....	162		
Secretary of Installation.....	162		
Sergeant-at-Arms.....	162		
Special Agent of Foreign Exhibits.....	162		

Y

YUCATAN, RUINS OF.....	1091
------------------------	------

Z

ZOOLOGICAL EXHIBIT—	
(See United States Government Exhibit.)	

INDEX TO PORTRAITS.

Abbott, A. A.... opp. page 158	Beeson, Mrs. Marie P. Har-	Burleigh, Mrs. Edwin C..
Ackerman, William K. opp. 24	mon..... opp. page 176	opp. page 25 and 178
Adams, Chas. E. opp. page 76	Beeson, Othneil. opp. page 70	Burnham, D. H. opp. page 172
Adams, Dudley W. opp. p. 82	Behan, S. P. opp. page 73	Burrowes, Frances P. opp. 180
Aiken, Walter... opp. page 56	Bell, Mrs. Mary C., opp. p. 179	Busselle, Miss Mary E., opp. 179
Allen, Phillip Jr. opp. page 56	Bennett, Jno. opp. page 57	Bustamante, Dr. Francisco
Allen, E. D. opp. page 175	Bey, Ibrahim Hakky. opp. 104	opp. page 105
Allen, Mrs. E. W. opp. page 179	Bickford, F. T. opp. page 156	Butler, Edward D. opp. p. 46
Allen, Gorton W. opp. 22 and 52	Bielby, C. F. A. opp. page 57	Butler, Mrs. T. J., opp. page 179
Allison, James. page 223	Billings, C. H. G. opp. page 48	Butt, J. D. opp. page 71
Altgeld, Pohn P. opp. page 98	Bingham, G. A. opp. page 77	Butterworth, Benjamin. opp. 168
Alvord, John W., opp. page 174	Birkoff, George. opp. page 105	Bynum, Joseph M. opp. p. 67
Amsden, C. H. opp. page 73	Bixby, Augustus R. opp. p. 57	Camp, Isaac N. opp. page 47
Andrews, Prof. opp. page 73	Blalock, N. G. M. D. opp. p. 72	Candee, Isabella L. opp. p. 180
Andrews, Alexander B.	Blackmar, Paul. opp. page 169	Cannon, H. W. opp. page 160
opp. page 22 and 70	Boaz, Frank. opp. page 161	Carey, J. S. opp. page 158
Andrews, H. B. opp. 73 and 77	Bonney, Charles C. opp. p. 168	Carlisle, W. H. opp. page 169
Angell, Mrs. Sarah S. C.,	Boyce, D. C. opp. page 158	Carse, Mrs. Matilda B. opp. 79
opp. page 177	Boyer, Bessie B. opp. page 160	Carter, H. C. opp. page 78
Arizaga, Col. M. N., opp. p. 105	Brackett, Fred. opp. page 159	Cash, Wm. E. opp. page 169
Armstrong, Mrs. Theo. F.	Bradwell, Mrs. Myra. opp. p. 79	Castleman, Mrs. Alice B.
opp. page 180	Brewer, E. opp. page 159	opp. page 180
Ashley, Mrs. Susan R. opp. 178	Brainard, Leverette. opp. 66	Castleman, Jno. B. opp. p. 53
Atwood, Chas. B., opp. page 174	Brayton, Mrs. Ellery M.	Chalmers, W. J. opp page 47
Austin, Mrs. I. J., opp. page 176	page 180	Chalfant, J. M. opp. page 53
Bagley, Clarence B., opp. p. 83	Breslin, Jas. H. opp. page 82	Chancellor, W. N. opp. p. 72
Baldwin, Chas. H. opp. p. 169	Briggs, Mrs. John S. opp. p. 178	Chappell, C. H. opp. page 47
Baker, Lieut. A. C., opp. p. 158	Brinker, Joseph H. opp. p. 78	Chetlain, Mrs. Gen'l A. L.
Baker, William T.,	Brinkley, G. H. opp. page 175	opp. page 79
opp. p. 46 and 60	Britton, A. T. opp. page 56	Clagett, Dorsey. opp. page 76
Ball, Mrs. J. Frank, opp. p. 177	Bromberg, Frederick G.,	Clark, John W. opp. page 83
Ball, Susan W. opp. page 180	opp. page 57	Clarke, Mrs. Francis B. opp. 178
Banks, Nancy H., opp. page 161	Brown, Mrs. H. F., opp. page 178	Clark, Mrs. Whiting S. opp. 178
Barbour, Geo. R. opp. page 67	Brooker, Chas. F., opp. page 83	Clendening, J. H. opp. p. 56
Barker, Mrs. H. M., opp. p. 177	Brown, W. E. opp. page 175	Cleveland, Grover.
Barker, Mrs. Helen M. opp. 25	Brown, Gov. Frank., opp. p. 72	bet. p. 86 and 87
Barrett, J. P. page 647	Bryan, Thomas B. opp. 46-162	Cloys, F. D. opp. p. 174
Bartolette, D. N., opp. page 159	Buchanan, N. I. page 495	Clowry, R. C. opp. page 47
Barrington, Charles V. opp. 24	Buford, A. S. opp. page 72	Coats, Geo. F. opp. page 70
Bartlett, Mrs. Edward L.	Bullene, Thomas B., opp. p. 67	Cobun, M. W. opp. page 73
opp. page 179	Bullock, I. A. G., opp. page 52	Coburn, John M. opp. page 56
Bassett, Lieut. F. S., opp. p. 160	Burchard, E. L. opp. page 158	Cochran, Archelaus M. opp. 70
Bates, Lana A. opp. page 180	Burke, Thos. opp. page 53	Cochran, Mrs. Mary A. opp. 177
Bean, Tarleton H., opp. p. 156	Burleigh, Hall C., opp. page 72	Cockran, Theresa J. opp. p. 180

- Coleman, Mrs. R. J. opp. p. 178
 Collins, Fred W. opp. page 78
 Collins, Timothy E. opp. p. 82
 Collier, Clinton. opp. page 158
 Collins, J. W. page 1011
 Columbus, Christopher, opp. 37
 Comingore, David N. opp. 76
 Comly, Major Clifton. opp. 156
 Conkey, W. B. opp. page 194
 Conklin, Daniel E. opp. p. 78
 Cooke, Mrs. Susan Gale 25
 Corcorn, Gen. John W. opp. 72
 Corcoran, John. opp. page 77
 Crawford, Mark L. opp. p. 48
 Crane, J. P. opp. page 161
 Crane, Charles. opp. page 83
 Crawford, Samuel A. opp. p. 24
 Cregier, Dewitt. opp. page 43
 Cron, Lucius C. opp. page 77
 Crosby, J. O. opp. page 73
 Culp, E. C. opp. page 159
 Cummin, George F. opp. p. 83
 Cummings, Joseph. opp. p. 169
 Cunningham, Miss F. page 180
 Curtis, W. E. opp. p. 156
 Curtis, David W. opp. page 77
 Dailey, Miss Charlotte Field, opp. page 179
 Daniell, Mrs. Frank H. opp. 180
 Davis, Geo. R. opp. page 62
 Davis, George R. opp. p. 46
 Davis, Wm. G. opp. page 67
 Dawson, N. E. opp. page 159
 Day, Merritt H. opp. page 70
 DeGroff, Edward. opp. p. 66
 Deere, Charles H. opp. p. 56
 Delaney, Mrs. A. K. opp. p. 176
 De Lome, Señor Dupuy. opp. p. 104
 Depew, Chauncey M. opp. 66, 73
 De Young, Michael H. opp. page 23, 40 and 57
 Dickinson, Francis M. D. opp. page 79
 Dickinson, John T. opp. p. 23, 40 and 70
 Dinsmore, John B. opp. p. 160
 Dixon, Arthur. opp. page 47
 Doolittle, Mrs. James R. Jr. opp. page 79
 Douglas, Frederick. opp. p. 104
 Drum, Henry. opp. page 66
 Dulaney, W. H. opp. page 72
 Eagle, Mrs. James P. opp. p. 178
 Eddy, Chas. B. opp. page 82
 Edgerton, Mrs. Rollin A. opp. page 178
 Edmonds, Howard O. opp. 24, 41
 Edwards, Clark S. opp. p. 83
 Eiboeck, Joseph. opp. page 57
 Ellsworth, J. W. opp. page 48
 Evans, L. M. 1107
 Ewing, Adlai T. opp. page 56
 Exall, Henry. opp. page 52
 Farnum, Mrs. Ann E. M. opp. page 179
 Fearn, Richard Lee, opp. p. 161
 Fearn, Walker 191
 Felder, E. A. opp. page 169
 Ferry, Wm. M. opp. page 83
 Feterd, Louis C. opp. page 82
 Fish, Frederick S. opp. p. 83
 Fisher, Ernest B. opp. page 76
 Fitzgerald, Louis. opp. page 53
 Foley, Mrs. M. D. opp. page 179
 Forsyth, Wm. opp. page 57
 Fosdick, Mrs. Anna M. opp. 178
 Foster, Chas. F. opp. page 175
 Foster, Elijah C. opp. p. 156
 Freitag, J. K. opp. page 175
 French, Mrs. Jonas H. opp. 176
 Frost, Mrs. Rufus S. opp. 176
 Funk, LaFayette. opp. p. 73-78
 Furnas, R. W. opp. page 52
 Gage, L. J. opp. page 41, 46, 54
 Gammon, Frank R. opp. p. 70
 Garland, A. M. opp. page 160
 Garvin, Thos. E. opp. page 56
 Ginty, Mrs. Flora Deall, opp. p. 25
 Gloukhovskoy, de P., opp. p. 104
 Goff, Lyman B. opp. page 56
 Goode, Prof. G. Brown. opp. 156
 Goodell, Roswell E. opp. p. 66
 Grinlinton, Hon. J. J. opp. 104
 Graham, E. R. opp. p. 174
 Groner, V. D. opp. p. 40, 71
 Guthrie, Mrs. Genevieve. opp. page 176
 Gutierrez, Thomas C. opp. 70
 Haines, James H., opp. p. 71
 Hall, Mrs. Daniel. p. 180
 Hall, Mrs. Francis E. opp. 176
 Hall, Wm. S., opp. page. 82
 Halliday, Charles K. opp. 66
 Hallock, Jno. K., opp. page 82
 Hancock, Mary B., opp. p. 180
 Handy, Moses P., opp. p. 185, 188
 Harrison, Carter, opp. p. 42
 Harrison, Mrs. Russel B. opp. page 25
 Harrison, Benjamin. bet. pages 92 and 93
 Harrison, Mrs. F. H. opp. 176
 Harper, John S., opp. page 73
 Hart, Mrs. Mary A. opp. p. 176
 Hartpence, Mrs. Walter. opp. page 176
 Hassler, Dr. Emil, opp. p. 105
 Hay, H. G., opp. page. 71
 Haynes, Mrs. J. H., opp. p. 180
 Hayes, John, opp. pages. 83
 Hazard, Jeffrey, opp. page. 76
 Hazen, A. D., opp. page. 156
 Heermans, Chas. A., opp. p. 77
 Hendricks, Mrs. Ira F. opp. 180
 Henrotin, Charles, opp. p. 46
 Henry, M. D., opp. page. 78
 Henshall, Dr. Jas. A. opp. 158
 Hershfield, Lewis H. opp. 71
 Higgins, Milton O., opp. p. 105
 Higinbotham, Harlow N. opp. pages 24, 41, 46, 167, 170
 Hirst, Jos., opp. page. 159
 Hodges, James, opp. page. 67
 Holcomb, W. H. opp. p. 174
 Hollinger, Arnold. opp. p. 105
 Holland, J. P., opp. page. 161
 Hooker, Mrs. Isabella B. opp. page 178
 Hopkins, C. B. page 71
 Houghton, Mrs. Alice. page 180
 Howes, Mrs. Eliza J. opp. 177
 Hughes, Hugh M., opp. p. 160
 Hull, Paul, opp. page. 161
 Hundley, Miss H. T. opp. 178
 Hundley, Oscar R., opp. p. 57
 Hurt, A. B., opp. page. 158
 Hutchison, C. L., opp. page 48
 Irving, R. J. C., opp. page. 159
 Isabella, Queen. opp. p. 37
 Ives, Miss. Francis S. opp. 178
 Ives, Halsey C. page 875
 Jackson, Mrs. A. C., opp. p. 179
 Johnson, E. Kurtz., opp. p. 76
 Jones, Charles H., opp. p. 67
 Kaley, Frank E. opp. page 83
 Keith, Elbridge G. opp. page 47
 Keogh, Thos. B. opp. page 70
 Kerfoot, Wm. D. opp. page 47
 Ketcham, Wm. P. opp. page 47
 Kidder, Mrs. Florence H., p. 180
 Kinder, Mrs. Mary, opp. p. 177
 King, Wm. F. opp. page 57
 King, H. C. opp. page 53
 Kirk, Milton W. opp. page 47
 Kiesel, Frederick J. opp. p. 70
 Klippel, Henry. opp. page 66
 Knox, W. M. opp. page 161
 Kurtz, Chas. M. opp. page 161
 Kurtz, Thomas C. opp. page 78
 Ladd, Mrs. Myra B. F., page 180
 Ladd, Geo. P. opp. page 76
 Lane, M. Henry. opp. page 67
 Lane, M. H. opp. page 40
 Langworthy, Mrs. E. C. opp. 177
 Lannan, Patrick H. opp. p. 56
 Lanyon, S. H. opp. page 78
 La Rue, H. M. opp. page 158
 Larke, J. S. opp. page 105
 Lauterbach, Jno. opp. page 82
 Lawrence, Edward F. opp. 47
 Lawson, Victor. opp. page 48
 Le Duc, Alphonse. opp. p. 78
 Lee, Mrs. Jas. W. page 180
 Leffler, Arthur. opp. page 104
 Leland, Muret N. opp. page 78
 Logan, H. opp. page 83
 Logan, Mrs. Jno A. opp. p. 176
 Loring, E. R. opp. page 175
 Lowndes, Loyd. opp. page 67
 McAdow, Mrs. Clara L. opp. 177
 McCandless, Mrs. Mary E. opp. page 179
 McConnell, Mrs. W. B. opp. 177
 McCormick, John J. opp. 83
 McDaniel, Lock. opp. page. 77
 McDonald, Alex. opp. page 77
 McDonald, Mark L. opp. 52
 McDonald, R. L. opp. page. 76
 McDuffee, Chas. D. opp. 56
 McHarg, Wm. S. opp. p. 174
 McIntyre, Henry H. opp. 66
 McIntyre, Wm. opp. page 70
 McKenzie, Jas. A. opp. 57
 McLaughlin, Mrs. S. W. opp. page 177
 McLaws, Lafayette. opp. 66
 McLean, W. E. opp. page 76
 McMahan, P. J. opp. page 78
 McNally, Andrew. opp. 48
 McNeal, Jos. W. opp. page 82
 Macbeth, Geo. A. opp. page 82
 Macomber, S. J. opp. page 158
 Manning, George A. opp. 57
 Martin, Euclid. opp. page 40
 Martindale, Elijah B. opp. 40
 Martindale, Elijah B. opp. 56
 Mason, Mrs. Carrington. opp. page 180

- Massey, George V. opp. 40, 170
 May, Wm. L. opp. page 82
 Meade, Miss F. H. opp. p. 161
 Meade, Capt. R. W. opp. p. 156
 Meade, Wm. K. opp. page 70
 Meeker, Stephen J. opp. p. 72
 Mercer, Asa S. opp. page 82
 Meredith, Mrs. Virginia C. opp. page 25, 176
 Miller, Miss Ora E. opp. 178
 Millet, F. D. opp. p. 174
 Minor, Miss Katherine L. opp. page 25, page 180
 Mitchell, James. opp. page 72
 Mitchell, Mrs. Jennie S. opp. 179
 Montfort, D. O. opp. page 73
 Moore, H. B. opp. page 67
 Moore, Mrs. Patti. opp. 180
 Morris, John S. opp. page 76
 Morrow, J. L. opp. page 77
 Morton, Levi P. bet. 92 and 93
 Mulcahy, J. opp. page 175
 Mulligan, Mrs. Jas. A. opp. 79
 Murphy, E. W. opp. page 175
 Murphy, R. J. opp. page 159
 Nathan, Adolph. opp. page 47
 Norris, Lyman D. opp. p. 76
 Nourse, E. G. opp. page 175
 Nuvatr, Phra Suriya, opp. p. 105
 Odell, John J. P. opp. p. 41, 46
 Oliveria, H. E. Marshall
 Jose Simeao de. opp. p. 104
 Oglesby, Mrs. Richard J. opp. page 176
 Oliver, Jas. opp. page 53
 Olmstead, Mrs. Chas. H. opp. page 176
 Olmstead, F. L. opp. p. 174
 Orff, Annie L. Y. opp. page 180
 Owens, John D. opp. p. 174
 Owings, Mrs. Melissa D. p. 180
 Packard, Geo. opp. page 169
 Palmer, Thomas W. opp. page 22, 40, 52, 58
 Palmer, Mrs. Potter. opp. p. 25, 79, 182
 Palitschek-Palmforst, Hon. Anton von. opp. page 104
 Paredes, T. opp. page 105
 Parker, H. G. opp. page 53
 Pattison, Gov. R. E. opp. p. 72
 Paul, Mrs. K. S. G. opp. p. 177
 Peabody, S. H. 365
 Peabody, W. W. opp. page 73
 Peck, Ferdinand W. opp. page 24, 41, 46
 Penn, Davidson B. opp. p. 23, 57
 Peralta, de. Sr. D. Manuel M. opp. page 105
 Perkins, Mrs. B. A. page 180
 Pitcher, O. H. opp. page 76
 Pickard, C. R. opp. page 160
 Pickett, M. B. opp. p. 174
 Pierce, R. H. opp. page 175
 Platt, H. P. opp. p. 22, 40, 66
 Pluemer, Adolph. opp. p. 77
 Porter, H. Fitz-John. opp. p. 158
 Porter, W. H. opp. page 66
 Porter, Washington. opp. p. 47
 Pratt, Wm. O. opp. page 160
 Pratt, E. Spencer. opp. p. 105
 Price, Mrs. Charles. opp. page 25, page 180
 Proctor, Thos. E.
 Putnam, F. W. page 1091
 Quelch, J. J. opp. page 104
 Raborg, W. A. opp. page 158
 Ramsay, S. A. opp. page 82
 Ravn, Chas. opp. page 104
 Reed, Myron. opp. page 77
 Reitz, Miss Wilhelmine, opp. page 176
 Renewick, Hon. Dr. Arthur opp. page 104
 Revell, Alexander H. opp. 46
 Rice, Col. E. opp. p. 174
 Rickards, Mrs. J. Eliza opp. 177
 Ricketts, R. B. opp. page 70
 Rigler, Frank. opp. page 160
 Ripley, E. P. opp. 41 and 47
 Robinson, L. W. 441
 Rogers, R. A. opp. page 159
 Roosevelt, Jas. opp. page 82
 Rosenau, Nathaniel S. opp. 160
 Rothery, Wm. E. opp. page 105
 Rothschilds, A. M. opp. p. 47
 Rue, Mrs. Parthenia P. opp. 179
 Russel, George. opp. page 66
 Ryland, Richard. opp. page 78
 St. Clair, J. W. opp. 40 and 170
 Samuels, J. M. 829
 Sanders, Mrs. Margaret I. opp. page 79
 Sanders, Robert L. opp. p. 67
 Sarner, Victor. opp. page 160
 Saunders, R. L. opp. 40 and 67
 Sawyer, A. W. opp. page 170
 Schneider, George opp. 46
 Schwab, Charles H. opp. page 47 and 170
 Scott, I. M. opp. page 73
 Scott, Albert J. opp. page 67
 Scott, J. W. opp. page 48
 Seay, A. J. opp. page 73
 Seeberger, Anthony F. opp. 24
 Sewell, Wm. J. opp. page 67
 Shankland, E. C. opp. p. 174
 Shepard, Mrs. Francis Wells. opp. page 176
 Shopoff, Prof. Vulks I. opp. 105
 Sibley, A. J. opp. page 77
 Sims, Gardiner C. opp. page 56
 Skiff, J. F. V. 689
 Smalley, B. B. opp. page 73
 Smith, De Witt. opp. page 78
 Smith, August L. opp. p. 72
 Smith, Thomas. opp. page 67
 Smith, J. B. opp. page 73
 Smolley, Bradley B. opp. 66
 Speed, A. C. opp. page 175
 Spender, Lorillard. opp. p. 76
 Spuhn, Carl. opp. p. 71
 Stanley, Chas. H. opp. page 83
 Stearns, John E. opp. page 57
 Steele, Sam. V. opp. page 161
 Stephens Russ D. opp. p. 83
 Stevens, Mrs. L. M. N. opp. 178
 Stevenson, Adlai T. bet. pages 86 and 87
 Stocks, Fred A. opp. page 156
 Stone, Mrs. J. M. page 180
 Stone, Mrs. Leander opp. 79
 Strong, Rush. opp. page 82
 Strother, Enoch. opp. page 78
 Studebaker, Clem. opp. p. 72
 Taylor, E. H. opp. page 159
 Taylor, Horace A. opp. p. 156
 Tegima, S. opp. p. 104
 Ten Eyck, Martha H. opp. 79
 Thatcher, Mrs. Solomon, Jr. opp. page 79
 Thomas, Theodore. opp. p. 161
 Thomson, Mrs. Alex. opp. 179
 Thornton, W. T. opp. page 72
 Thorpe, John. opp. page 158
 Tiller, J. T. W. opp. page 56
 Tomlins, Wm. L. opp. page 161
 Tousley, O. V. opp. p. 40 & 67
 Tindal, J. M. opp. page 83
 Trautman, Mrs. Ralph. opp. page 25 and page 180
 Travis, Charles M. opp. p. 76
 Truman, Ben. C. opp. page 158
 Tucker, Horace. opp. page 169
 Turnbull, Richard. opp. 57
 Turner, Mrs. Ida Loving. opp. page 177
 Upshur, George M. opp. p. 78
 Van Horn, W. L. opp. page 76
 Vercruysse, Astere, opp. p. 104
 Vrooman, Wellington. opp. 77
 Wacker, Charles H. opp. p. 46
 Walker, Aldace F. opp. p. 77
 Walker, Edwin. opp. page 41
 Walker, Edwin. opp. page 46
 Wallace, Mrs. M. R. M. opp. p. 79
 Waller, Robert A. opp. p. 46
 Waller, Robert A. opp. p. 24
 Waller, Thomas M. opp. p. 40
 Waller, Thomas M. opp. p. 66
 Waller, Thomas M. opp. p. 23
 Walsh, Patrick. opp. page 52
 Washburn, Hempstead. opp. page 43
 Waring, Mrs. Clark, opp. p. 180
 Weiner, L. opp. page 105
 Welling, John C. opp. page 48
 Wells, James M. opp. page 72
 Wermuth, Adolph. opp. p. 104
 Wheeler, G. H. opp. page 48
 Whelan, Mrs. Thos. A. 179
 White, Richard Mansfield. opp. page 70
 Whitlaw, John M. opp. p. 160
 Whitney, Mrs. W. C. page 180
 Widener, P. A. B. opp. p. 52
 Willson, Adelaide F. opp. 160
 Wilkins, Mrs. Beriah. opp. 25
 Wilkins, Mrs. Beriah. page 180
 Wilkins, Martin. opp. page 71
 Willard, Francis E. opp. p. 79
 Williams, Louis L. opp. p. 71
 Williams, Thos. L. opp. p. 66
 Willits, Edwin. opp. page 156
 Wilson, Albert A. opp. p. 56
 Wilson, George H. opp. p. 161
 Wilson, Mrs. John R. opp. 177
 Winston, Frederick S. opp. 46
 Wise, Mrs. Ino. opp. page 177
 Wood, Sir Henry. opp. page 104
 Woods, Capt. A. A. opp. p. 72
 Woodside, John W. opp. p. 70
 Woodward, Thos. J. opp. p. 57
 Wright, Charles. opp. page 158
 Wright, W. T. opp. page 77
 Yerkes, Chas. T. opp. page 48
 York, E. D. opp. page 160
 Young, C. E. opp. page 168
 Young, Max. opp. page 175
 Young, T. Hackworth. opp. 160
 Young, Otto. opp. page 48
 Zeggio, Signor V. opp. page 510

INDEX TO BUILDINGS.

	PAGE.		PAGE
Administration Building.....	Frontispiece	Manufactures and Liberal Arts Building..	216
Agricultural Building.....	492	Maryland State Building.....	993
Anthropological Building.....	1090	Massachusetts State Building.....	426
Arkansas State Building.....	362	Merchant Tailors Building.....	opp. 142
Art Palace.....	872	Merck & Co.'s Building.....	220
Brazil (Building of).....	opp. 108	Michigan State Building.....	348
California State Building.....	354	Mines and Mining Building.....	688
Canada (Building of).....	opp. 108	Minnesota State Building.....	432
Ceylon (Building of).....	opp. 110	Missouri State Building.....	478
Children's Building.....	opp. 196	Montana State Building.....	1029
Colombia (Building of).....	opp. 110	Nebraska State Building.....	680
Colorado State Building.....	419	North Dakota State Building.....	998
Connecticut State Building.....	359	New Hampshire State Building.....	991
Costa Rica (Building of).....	opp. 116	New Jersey State Building.....	487
Delaware State Building.....	488	New South Wales (Building of).....	opp. 136
Electrical Building.....	644	New York State Building.....	684
Fish and Fisheries Building.....	1008	Norway (Building of).....	opp. 136
Florida State Building.....	475	Ohio State Building.....	814
Forestry Building.....	1106	Pennsylvania State Building.....	482
France (Building of).....	opp. 116	Public Comfort Building.....	opp. 196
Gautemala (Building of).....	opp. 126	Rhode Island State Building.....	423
Germany (Building of).....	opp. 122	Shoe and Leather Trades Building... opp.	200
Great Britain, "Victoria House".....	472	South Dakota State Building.....	772
Hayti (Building of).....	opp. 126	Spain (Building of).....	opp. 138
Horticultural Building.....	828	Sweden (Building of).....	opp. 142
Idaho State Building.....	629	Texas State Building.....	1005
Illinois State Building.....	635	Transportation Building.....	776
India (Building of).....	opp. 130	Turkey (Building of).....	opp. 144
Indiana State Building.....	640	Utah Territorial Building.....	675
Iowa State Building.....	823	United States Government Building.....	146
Japan (Building of).....	opp. 130	Venezuela (Building of).....	opp. 144
Joint Territorial Building.....	817	Vermont State Building.....	343
Kansas State Building.....	1033	Virginia State Building.....	820
Kentucky State Building.....	997	Washington State Building.....	678
La Rabida, Convent of.....	opp. 138	West Virginia State Building.....	632
Louisiana State Building.....	1001	Wisconsin State Building.....	768
Machinery Hall Building.....	436	Woman's Building.....	1036
Maine State Building.....	995	Wyoming State Building.....	771

ALPHABETICAL INDEX TO ADVERTISERS.

A

Acme Copying Co.....	871
Ahrenfeldt, Charles & Son.....	340
Allis, The Edward P. Co.....	450
American Strawboard Co.....	428
American Electrical Works.....	654
American Vault, Safe and Lock Co.....	679
American Ship Windlass Co.....	826
Ames & Frost Co.....	819
Andrews-Demarest Seating Co.....	821
Anthony, E. & H. T. & Co.....	1050
Armour & Company.....	1000
Aultman, C. & Co.....	480

B

Badische-Anilin und Soda Fabrik.....	346
Badger Paper Co.....	438
Bailey, C. J. & Co.....	489
Baker, Walter & Co.....	342
Baker, Joseph & Sons.....	480
Bass Foundry and Machine Works.....	360, 361
Beaman & Smith.....	485
Berlin Print Works.....	766
Billings & Spencer Co., The.....	469
Bishop, J. H. Co., The.....	349
Blackinton, W. & S.....	338
Blount Mfg. Co.....	356
Boggs, E. L.....	1081
Bradley Fertilizer Co.....	765
Bradley Mfg. Co., David.....	638
Bridgeport Elastic Web Co., The.....	219
Brixey, W. R.....	687
Brown, Theo. M.....	1010
Brownell Car Co.....	777
Brush Electric Co.....	673
Burroughs, Wellcome & Co.....	682
Burlington Blanket Co.....	687
Burrell, D. H. & Co.....	770
Butler Drawbar Attachment Co.....	824

C

Chambers Bros. Company.....	1105
Chapman, Jack Co., The.....	824
Chickering & Sons..... (outside cover) and	368
Chicago Rawhide Mfg. Co., The.....	679
Chicago & Northwestern Railway Co.....	641
Chicago Cottage Organ Co.....	364, 873
Clark, George M. & Co.....	422
Cleveland Twist Drill Co.....	433
Clough & Maconnell.....	822
Conkey, W. B. Company.....	222, 440, 687, 999
Cosmo Buttermilk Soap Co., The.....	1006
Cottrell, C. B. & Sons.....	773
Crane Company.....	486
Cradock, George & Co.....	1032

D

Dejonge, Louis & Co.....	425
Dernburg, Glick & Horner.....	218
Diamond Machine Co.....	479
Disston, Henry & Sons.....	483
Dodge Mfg. Co.....	435
Dowling, John & Co.....	1031
Deming Company, The.....	433

E

Economic Smokeless Fire Co., The.....	1010
Eddy Electric Mfg. Co., The.....	672
Eddystone Mfg. Co., The.....	766
Edwards, W. S. Mfg. Co.....	480
Ehman & Simon Mfg. Co.....	351
Ehrhardt, Heinr.....	489
Electrical Forging Co.....	826
Electric Heat Alarm Co.....	681
Elkhart Carriage & Harness Mfg. Co.....	821
Emerson Piano Co.....	427
Estey Organ Co.....	994
Evans-Snyder-Buel Co.....	1118

F

Fairbanks, Morse & Co.....	769
Fay, J. A. & Egan Co.....	1118
First National Bank.....	227
Flint & Walling Mfg. Co.....	444
Ford-Washburn Storelectro Co., The.....	1003
Fort Wayne Electric Co.....	498, 645
Foster & Bailey.....	339
Friend, Geo. H. Paper Co., The.....	217

G

Gibson, W. D. Co., The.....	1006
Globe Yarn Mills.....	821
Gormully & Jeffery Mfg. Co.....	774
Gottfried Brewing Co.....	490
Goodyear Hard Rubber Co., The.....	350, 646
Grusonwerk, The.....	481
Gurley, W. & L. E.....	642

H

Hall, S. W.....	351
Hancock Inspirator Co., The.....	816
Hannus Distilling Co., The.....	631
Haviland & Co.....	340
Holly Mfg. Co.....	439

I

India Rubber Comb Co., The.....	350, 646
---------------------------------	----------

J

Jewell Belting Co.....	469
Joy & Seliger Co.....	351

K

Keeley Brewing Co.....	630
Kent & Stanley Co.....	215
Knapp Electrical Works, The.....	674
Koopman & Co.....	1003
Krupp, Fried.....	344

L

Leader, The.....	218
Lemp Brewing Co., Wm. J.....	493
Lewis & Sons, W.....	681
Libbey Glass Co., The.....	226
Lincoln Park Sanitarium.....	676
Link-Belt Engineering Co.....	775
Link-Belt Machinery Co., The.....	775
Logan, F. G. & Co.....	508
London Guarantee & Accident Co., Ltd.....	471
Lord, G. W.....	477
Louisville, New Albany & Chicago R'y.....	638
Lowney Company, Walter M., The.....	636

M

Machinists' Supply Co., The.....	485
Marseilles Mfg. Co.....	420
Marder, Luse & Co.....	643
Meeker, S. J.....	813
Mechanical Mfg. Co., The.....	878
Merck & Co.....	220, 221
Meriden Britannia Co.....	434
Metropolitan Life Insurance Co.....	1004
Miehle Printing Press and Mfg. Co.....	638
Minot, Hooper & Co.....	422
Mitchel & Halbach.....	1006
Moline Plow Co.....	634
Montague & Fuller.....	421
Moore, Samuel & Co.....	1004
Moore & Sinnott.....	422
Morgan, John.....	1004
Morse, Williams & Co.....	815
Munson Typewriter Co., The.....	1035
Mutual Life Ins. Co., The, of New York.....	491

N

National Malleable Castings Co., The.....	775
National Carbon Co., The.....	1000
New England Butt Co.....	683
New York Central & H. R. R. R. Co.....	825
New York Life Ins. Co.....	1007
New York Safety Steam Power Co.....	767
Niagara Stamping and Tool Co.....	489
Nicholson File Co.....	355
Norris & Co.....	1009
North Packing & Prov. Co.....	425
Northwestern Terra-Cotta Co., The.....	473
Norton Door-Check & Spring Co., The.....	826
Nungesser, Henry.....	641

O

O'Brien Varnish Co., The.....	358
Otis Brothers & Co.....	238
Owen Electric Belt & Appliance Co., The.....	686

P

Pabst Brewing Co.....	625-6-7-8
Penberthy Injector Co.....	1004
Pickhardt, Wm. & Kuttroff.....	346
Phoenix Mutual Life Ins. Co.....	437
Phoenix Glass Co.....	677
Plankinton House.....	682
Prentice Brothers.....	484
Prosser, Thos. & Son.....	344
Providence Stock Co.....	1031

Q

Queen City Printing Ink Co., The.....	352
---------------------------------------	-----

R

Rand Drill Co.....	1003
Redon, M.....	340
Rhode Island Perkin's Horse Shoe Co.....	765
Rice & Whitacre Mfg. Co.....	480
Ringler, F. A. Co.....	874
Rochester Wheel Co.....	826
Roessler & Hasslacher Chemical Co., The.....	425
Rogers & Bro.....	494
Roebbling's Sons Co., Jno. A.....	358
Roller, A. Machine Works.....	474
Rouse, Hazard & Co.....	1000
Rushton, J. H.....	878
Ryan, J. J. & Co.....	474

S

Safety Insulated Wire & Cable Co., The.....	685
Sanford Spinning Co.....	821
Schleicher, Schumm & Co.....	470
Schomacker Pianoforte Mfg. Co.....	992
Scott, Walter.....	637
Sechler, D. M. Carriage Co.....	816
Schering & Glatz.....	353
Schieren, Charles A. & Co.....	692
Simpson, Wm., Sons & Co.....	766
Simpson, Hall, Miller & Co.....	827
Simonds Rolling-Machine Co.....	812
Simmons, R. F. & Co.....	637
Sinclair, S. H. Co.....	822
Smillie Coupler and Mfg. Co., The.....	813
Smith & Wesson.....	347
Sohmer & Co.....	429
Spierling & Linden.....	1006
Staver & Abbott Mfg. Co.....	822
Standard Tool Co., The.....	679
Sturtevant Mill Co.....	766

T

Taylor, Geo. H. & Co.....	425
Times-Mirror Co., The.....	438
Torrey, J. R. Razor Co.....	1034
Troy Laundry Machinery Co., Ltd.....	1010

U

Union Iron Works.....	778
-----------------------	-----

V

Van Houten, C. J. & Zoon.....	345
-------------------------------	-----

W

Wacker & Birk Brewing & Malting Co., The.....	639
Ward, Charles.....	1094
Walworth Mfg. Co.....	486
Warwick Cycle Mfg. Co.....	633
Washburn & Moen Mfg. Co.....	357
Waterbury Watch Co., The.....	341
Wertheim, Louis.....	474
Werner & Pfeiderer.....	479
Weser Bros.....	363
Western Valve Co.....	358
Western Wheel Works.....	790
Willimantic Linen Co.....	431
Winslow Bros. Co., The.....	1000
Woollams, Wm. & Co.....	1010
Wolf, R.....	476
World's Fair Souvenir Co.....	1095
Worthington, Henry R.....	1096
Wycoff, Seamans & Benedict.....	356

Y

Ypsilanti Dress Stay Mfg. Co., The.....	878
---	-----

CLASSIFIED BUSINESS INDEX.

(ADVERTISERS.)

A**Accident Insurance.**

London Guarantee & Accident Co., Ltd.,
Chicago, Ill. 471

Agricultural Implements.

David Bradley M'fg Co., Chicago, Ill. 633
Marseilles M'fg Co., Marseilles, Ill. 420
Moline Plow Co., Moline, Ill. 634

Agricultural Implement Machinery.

J. A. Fay & Egan Co., Cincinnati, O. 1118

Air Brake Fittings.

Crane Co., Chicago, Ill. 486

Alizarine Dyes.

Badische Anilin und Soda Fabrik. 346
Wm. Pickhardt & Kuttroff, Chicago. 346

Aniline Colors.

Badische Aniline und Soda Fabrik. 346
Wm. Pickhardt & Kuttroff, Chicago. 346

Artistic Furniture.

Koopman, & Co., Boston, Mass. 1003

Architectural Terra Cotta.

North-Western Terra Cotta Co., Chicago. 473

Architectural Iron Works.

The Winslow Bros. Co., Chicago, Ill. 1000

Arsenal Machinery.

J. A. Fay & Egan Co., Cincinnati, O. 1118

Asbestos.

Wertheim Louis, 474

Automatic Fire Alarms.

Electric Heat Alarm Co., Boston, Mass. 681

Axes and Car Wheels.

Bass Foundry and Machine Works, Fort
Wayne, Ind. 360-361

B**Banks.**

First National Bank, Chicago, Ill. 227

Beer.

Gottfried Brewing Co., Chicago, Ill. 490
Keeley Brewing Co., Chicago. 630
Pabst Brewing Co., Milwaukee. 625 to 628
Wm. J. Lemp Brewing Co., St. Louis, Mo. 493

Belting.

The Chicago Raw Hide M'fg Co., Chicago,
Ill. 679

Bicycle Manufacturers.

Ames & Frost Co., Chicago, Ill. 819
Gormully & Jeffery M'fg Co., Chicago, Ill. 774
Rouse Hazard & Co., Peoria. 1000
Warwick Cycle Mfg. Co. 633
Western Wheel Works, Chicago, Ill. 790

Boats.

J. H. Rushton. 878

Bookbinders' and Printers' Machinery.

Montague & Fuller, Chicago, Ill. 421

Boilers.

Bass Foundry and Machine Works, Fort
Wayne, Ind. 360, 361
Charles Ward. 1094
Rice & Whitacre Mfg. Co. 480

Bookbinders' Material.

Louis Dejonge & Co., New York, N. Y. 425

Braiding Machinery.

New England Butt Co., Providence, R. I. 683

Brass Founders and Finishers.

J. J. Ryan & Co., Chicago, Ill. 474

Bread and Cake Making Machinery.

Jos. Baker & Sons. 480

Brewers and Bottlers.

The Wacker & Birk Brewing and Malting
Co., Chicago, Ill. 639

Brick Making Machinery.

Chambers Brothers Co., Philadelphia, Pa. 1105

Buggy, Carriage and Wagon Machinery.

J. A. Fay & Egan Co., Cincinnati, Ohio. 1118

Builders' Hardware.

Blount M'fg Co., Boston, Mass. 356

Bumping Posts.

Mechanical M'fg Co., Chicago, Ill. 878

C**Car Couplers.**

Smillie Coupler and Mfg. Co., Newark, N. J. 813

Car, Railway and Bridge Machinery.

J. A. Fay & Egan Co., Cincinnati, O. 1118

Carbons.

The National Carbon Co., Cleveland, Ohio. 1000

Carriage Wheels.

Rochester Wheel Co., Rochester, N. Y. 826

Carriages, Buggies and Carts.

D. M. Sechler Carriage Co., Moline, Ill. 816
Staver & Abbott M'fg Co., Chicago, Ill. 822

Chain Manufacturers.	
W. & S. Blackinton, Attleboro, Mass.....	338
Chemicals and Drugs.	
Merck & Co., New York, N. Y.....	220, 221
Schering & Glatz, New York.....	353
China Manufacturers.	
M. Redon, Limoges, France.....	340
Agents, Charles Ahrenfeldt & Son.	
Charles Ahrenfeldt & Son, New York, N. Y.	
Agents for M. Redon, of Limoges, France.	340
Chocolate Bonbons.	
The Walter M. Lowney Co., Boston, Mass.	636
Civil Engineers.	
W. & L. E. Gurley, Troy, N. Y.....	642
Cocoa.	
Van Houtens, Weesp, Holland; Chicago, New York.....	345
Cocoa and Chocolate.	
Walter Baker & Co., Boston, Mass.....	342
Cold Sawing Machines.	
Heinr Ehrhardt, Duesseldorf, Ger.....	489
Commission Merchants.	
Evans-Snider Buel Co., Chicago, Ill.....	1118
F. G. Logan & Co., Chicago, Ill.....	508
Cork Screws.	
Clough & Macconnell, New York.....	822
Cotton Goods.	
Minot Hooper & Co., New York and Boston.....	422
Cotton Thread.	
Willimantic Linen Co., Hartford, Conn....	431
Cotton Yarns.	
Globe Yarn Mills, Fall River Mass.....	821
Sanford Spinning Co, Fall River, Mass....	821
D	
Decorations.	
Mitchel & Halbach, Chicago, Ill.....	1006
Distillers.	
John Dowling & Co., Tyrone, Ky.....	1031
Moore & Sinnott, Philadelphia, Pa.....	422
The Hannis Distilling Co., Philadelphia, Pa.....	631
Door Check and Springs.	
The Norton Door-Check and Spring Co., Boston, Mass.....	826
Drawbar Attachments.	
The Butler Drawbar Attachment Co., Cleveland, Ohio.....	824
Dress Stays.	
The Ypsilanti Dress Stay M'fg Co., Ypsilanti, Mich.....	878
Dry Goods.	
The Leader, Chicago, Ill.....	218

Dry Goods Commission Merchants.	
Wm. Simpson Sons & Co., Philadelphia, Pa.....	766
Dye Stuffs.	
Wm. Pickhart & Kuttroff, Chicago, Ill....	346
Badische Analin und Soda Fabrik.....	346
Dynamos.	
Brush Electric Co., Cleveland, Ohio.....	673
Fort Wayne Electric Co., Fort Wayne, Ind	498, 645
The Eddy Electric Mfg. Co., Windsor, Conn	672
E	
Elastic Shoe Goring.	
The Bridgeport Elastic Web Co., Bridgeport, Conn.....	219
Electric Pumps.	
Otis Brothers & Co., New York, N. Y....	238
Electric Wire.	
American [Electrical Works, Providence, R. I.	654
Electrical Supplies.	
Knapp Electrical Works, Chicago, Ill....	674
Rice & Whitacre Mfg. Co., Chicago, Ill ..	480
The India Rubber Comb Co., New York, N. Y.....	350, 646
Electric Belts and Appliances.	
The Owen Electric Belt Appliance Co., Chicago.....	686
Electric Light Globes.	
Phoenix Glass Co., New York.....	677
Electric Motors.	
Brush Electric Co., Cleveland, Ohio.....	673
Eddy Electric Co., Windsor, Conn.....	672
Electric Fire and Journal Bearing Alarms.	
Electric Heat Alarm Co., Boston, Mass....	681
Electrotypers.	
F. A. Ringler Co., New York, N. Y.....	874
Elevators.	
Morse, Williams & Co., Philadelphia, Pa..	815
Otis Brothers & Co., New York, N. Y....	238
Elevators and Conveyors.	
The Link-Belt Machinery Co., Chicago....	775
Link-Belt Engineering Co., Philadelphia, New York.....	775
Emery Wheels.	
Sturtevant Mill Co., Boston, Mass.....	766
Engines.	
C. Aultman & Co., Canton, Ohio.....	430
The Edward P. Allis Co., Milwaukee, Wis.	450
Bass Foundry and Machine Works, Fort Wayne, Ind.....	360, 361
R. Wolf, Magdeburg, Buckau, Ger	476
Schleicher Schumm & Co.....	470
Engine Lathes.	
Prentice Bros., Worchester, Mass	484

Engines and Boilers.

New York Safety Steam Power Co., Chicago, Ill.----- 767

Engine Packing.

Louis Wertheim, Duesseldorf, Ger.----- 474

Engineering Works.

Grusonwerk, Germany----- 481

F**Fan Motors, Manufacturers of.**

The Ford-Washburn Storelectro Co., Cleveland, Ohio-----1003

Filers' Tools and Specialties.

Nicholson File Co., Providence, R. I.----- 355

Fire Arms and Revolvers.

Smith & Wesson, Springfield, Mass.----- 347

Fire Extinguishers.

Walworth Mfg. Co., Boston, Mass.----- 486

Flour Mill Machinery.

The Edward P. Allis Co., Milwaukee, Wis. 450

Forgings.

Simonds Rolling Machine Co., Fitchburg, Mass.----- 812

Electrical Forging Co., Boston, Mass.----- 826

Foundry Castings.

Grusonwerk, Germany----- 481

Fried Krupp, Germany----- 481

French China (Manufacturers).

Haviland & Co., New York, N. Y.----- 340

Fuel Economizing Ranges.

Economic Smokeless Fire Co., London, Eng.-----1010

Furniture and Chair Machinery.

J. A. Fay & Egan Co., Cincinnati, O.-----1118

G**Gas and Electric Light Fixtures.**

W. S. Edwards M'fg Co., Chicago, Ill.----- 480

Gas and Petroleum Engines.

Schleicher, Schumm & Co., Philadelphia-- 470

Gasoline and Oil Stoves.

Geo. M. Clarke & Co., Chicago, Ill.----- 422

Glass Manufacturers.

Libbey Glass Co., Chicago, Ill.----- 226

Grinding and Polishing Machinery.

Diamond Machine Co., Chicago, Ill., Providence, R. I.----- 479

Glue.

Armour & Co., Chicago, Ill.-----1000

Gold and Silver Plate.

Meriden Britannia Co., Meriden, Conn.--- 434

H**Hard Rubber Goods.**

The India Rubber Comb Co., New York, N. Y.-----350, 646

The Goodyear Hard Rubber Co., New York, N. Y.-----350, 646

Haberdashers.

W. Lewis Sons, London, Eng.----- 681

Hog Products.

Armour & Co., Chicago Ill.-----1000

Hoisting Machinery.

Otis Brothers & Co., New York, N. Y.----- 238

Horse Blankets. ("Stay-on.")

Burlington Blanket Co., Burlington, Wis.-- 687

Horse Shoes.

Rhode Island Perkins Horse Shoe Co., Providence, R. I.----- 765

Hotels.

Plankinton House, Milwaukee, Wis.----- 682

I**Incandescent Dynamos.**

The Ford-Washburn Storelectro Co., Cleveland, O.-----1003

Incandescent Lighting.

Fort Wayne Electric Co., Fort Wayne, Ind.-----498, 645

Injectors.

The Hancock Inspirator Co., Boston, Mass. 816

Pemberthy Injector Co.-----1004

Insulated Wire and Cables.

Safety Insulated Wire and Cable Co., New York, N. Y.----- 685

W. R. Brixey (Day's Kerite), New York, N. Y.----- 687

The India Rubber Comb Co.-----350, 646

Interior Decorations.

Spierling & Linden, Chicago, Ill.-----1006

J**Jewelry and Jewelers (Manufacturing).**

R. F. Simmons & Co., Attleboro Falls, Mass.----- 637

Kent & Stanley M'fg Co., Providence, R. I.----- 215

Foster & Bailey, Providence, R. I.----- 339

Providence Stock Co., Providence, R. I.---1031

Jewelers Findings.

S. Moore & Co., Providence, R. I.-----1004

Jack-Screws.

The Chapman Jack Co., Cleveland, O.--- 824

K**Kneading and Mixing Machines.**

Werner & Pfeiderer, Cannstall, Ger.----- 479

L**Lace Leather.**

Chas. A. Schieren & Co., Chicago, Ill.----- 692

Laundry Machinery.	
S. H. Sinclair Co., Chicago, Ill.....	822
Troy Laundry Machinery Co., Ltd.....	1010
Leather Belting.	
Chas. A Schieren & Co., Chicago, Ill.....	692
Jewell Belting Co., Hartford, Conn.....	469
Ledgers.	
Theo. M. Brown, Cazenovia, Minn.....	1010
Leggings and Overgaiters.	
S. W. Hall, Chicago, Ill.....	351
Lenses.	
E. & H. T. Anthony & Co., New York, N. Y.....	1050
Life Insurance.	
Metropolitan Life Insurance Co., New York, N. Y.....	1004
New York Life Insurance Co.....	1007
Phoenix Mutual Life Insurance Co., Hart- ford, Conn.....	437
The Mutual Life Insurance Co. of New York, N. Y.....	491
Locomotive Castings.	
Bass Foundry and Machine Works, Fort- Wayne, Ind.....	360-361
Lord's Boiler Compound.	
G. W. Lord, Philadelphia, Pa.....	477
M	
Machine Tools.	
Beaman & Smith, Providence, R. I.....	485
Prentice Bros., Worcester, Mass.....	484
The Billings & Spencer Co., Hartford, Conn.....	469
Machinery (for Covering Electric Wires).	
New England Butt Co., Providence, R. I..	683
Machinery (Laundry).	
S. H. Sinclair Co., Chicago, Ill.....	822
Troy Laundry Machinery Co., Ltd.....	
Machinists' Tools and Supplies.	
The Machinists' Supply Co., Chicago, Ill..	485
Malleable Iron Castings.	
The National Malleable Casting Co., Chi- cago, Ill.....	775
S. J. Meeker, Newark, N. J.....	813
Manufacturing Chemists.	
Burroughs Wellcome Co., London, Eng....	682
Manufacturing and Importing Chemists.	
The Roessler & Hasslacher Chemical Co., New York.....	425
Mantels, Grates and Tiles.	
Ehman & Simon M'f'g Co., Chicago.....	351
Match and Match Box Machinery.	
A. Roller, Machine Works, Berlin, Germany	474
Motors (Manufacturers of).	
The Ford-Washburn Storelectro Co., Cleve- land, O.....	1003

Milk, Butter and Cheese Apparatus, Ma- chinery and Supplies.	
D. H. Burrell & Co., Little Falls, N. Y....	770
Mining Machinery.	
Rand Drill Co., New York, N. Y.....	1003
Union Iron Works, San Francisco, Cal....	778
Mineral Water.	
John Morgan, New York, N. Y.....	1004

N

Navy and Shipyard Machinery.	
J. A. Fay & Egan Co., Cincinnati, O.....	1118.
Newspapers.	
Times Mirror Co., Los Angeles, Cal.....	438

O

Opera Chairs and Church Furniture.	
Andrews-Demarest Seating Co., New York, N. Y.....	821
Organs.	
Chicago Cottage Organ Co., Chicago....	364, 873
Estey Organ Co., Brattleboro, Vt.	994
Over-gaiters and Leggings.	
S. W. Hall, Chicago, Ill.....	351

P

Paper Dealers.	
George H. Taylor & Co., Chicago, Ill.....	425
Paper Folding Machinery.	
Chambers Brothers Co., Philadelphia, Pa...	1105
Paper Manufacturers.	
Badger Paper Co.....	438
George H. Friend Paper Co., Chicago, Ill.	217
Photo Engravers.	
F. A. Ringler & Co., New York, N. Y....	874
Piano (Manufacturers).	
Chicago Cottage Organ Co., Chicago....	364, 873
Chickering & Sons, Boston, Mass.....	368
Emerson Piano Co.....	427
Schomacker Pianoforte Mfg. Co., Philadel- phia, Pa.....	992
Sohmer Co.....	429
Weser Bros., New York, N. Y.....	363
Photographic Materials and Supplies.	
E. & H. T. Anthony & Co., New York, N. Y.....	1050
Planing Mill Machinery.	
J. A. Fay & Egan Co., Cincinnati, O.....	1118
Porcelain (Manufacturers).	
Haviland & Co., New York, N. Y.....	340
Pork and Beef Packers.	
North Packing and Provision Co., Boston, Mass.....	425
Portraits (Copying and Enlarging).	
Acme Copying Co., Chicago, Ill.....	871

Printed Cotton Goods.

Berlin Print Works, Philadelphia, Pa. 766
 The Eddystone M'fg Co., Ltd., Philadel-
 phia, Pa. 766

Printers and Binders.

W. B. Conkey Co., Chicago. 222, 440, 687, 999

Printers Ink.

Queen City Printing Ink Co., Cincinnati. 352

Printing Presses.

C. B. Cottrell & Sons, Chicago, Ill. 773
 Miehle Printing Press Mfg. Co., Chicago. 638
 Walter Scott, Plainfield, N. J. 637

Pumping Engines.

Holly M'fg Co., Lockport, N. Y., Chicago,
 Ill. 439

Pumping Machines.

Henry R. Worthington, London, Eng. 1096

Pumps.

Flint & Walling Mfg. Co., Kendallville, Ind. 444
 The Deming Co. 433

R**Railroads.**

Chicago & North Western Ry. Co. 641
 Louisville, New Albany & Chicago Ry. 638
 New York Central & Hudson R. R. Co. 825

Railway Appliances

Butler Drawbar Attachment Co. 824

Razors.

J. R. Torrey Razor Co., Worcester, Mass. 1034

Rock Pulverizers.

Bradley Fertilizer Co., Boston Mass. 765

Rubber Goods.

C. J. Bailey & Co., Boston, Mass. 489

S**Safes and Vaults.**

American Vault, Safe and Lock Co., Chi-
 cago, Ill. 679
 Norris & Co., Chicago, Ill. 1009

Sanitariums.

Lincoln Park Sanitarium, Chicago. 676

Sash, Door and Blind Machinery.

J. A. Fay & Egan Co., Cincinnati, Ohio. 1118

Saws.

Henry Disston, Philadelphia, Pa. 483

Sheet Metal Workers' Machines and Tools.

Niagara Stamping and Tool Co., Buffalo,
 N. Y. 489

Saw Mill Machinery.

The Edward P. Allis Co., Milwaukee, Wis. 450

Scales.

Fairbanks, Morse & Co., Chicago, Ill. 769

Seeds.

Henry Nungesser, New York, N. Y. 641

Ship and Engine Builders.

Union Iron Works, San Francisco. 778

Silver Plated Flat Ware.

Rogers & Brother, New York, N. Y. 494

Silver Plated Ware.

Simpson, Hall, Miller & Co., Wallingford,
 Conn. 827

Shot Chain.

S. Moore & Co., Providence, R. I. 1004

Skin Rugs, Robes and Coats.

The J. H. Bishop Co., Wyandotte, Mich. 349

Smoke Consuming Ranges.

Economic Smokeless Fire Co., London,
 Eng. 1010

Soaps (Toilet).

The Cosmo Buttermilk Soap Co., Chicago,
 Ill. 1006

Souvenirs.

World's Fair Souvenir Co., Chicago. 1095

Spoke and Wheel Machinery.

J. A. Fay & Egan Co., Cincinnati, Ohio. 1118

Spring Manufacturers.

The Wm. D. Gibson Co., Chicago, Ill. 1006

Steam and Gas Fitters' Supplies.

Crane Co., Chicago, Ill. 486

Steel Manufacturers.

Cast Steel Works of Fried. Krupp, Essen,
 Germany. 344

Straw Board Manufacturers.

American Straw Board Co., Chicago, Ill. 428

Street Cars.

Brownell Car Co., St. Louis, Mo. 777

Storage Batteries (Manufacturers of).

The Ford-Washburn Storelectro Co., Cleve-
 land, Ohio. 1003

Street Car Motors (Manufacturers of).

The Ford-Washburn Storelectro Co., Cleve-
 land, Ohio. 1003

Subscription Book Publishers.

W. B. Conkey Co., Chicago, Ill.
 222, 440, 687, 999

Surface-Coated Papers.

Louis Dejonge & Co., New York, N. Y. 425

Surveyors' Instruments.

W. & L. E. Gurley, Troy, N. Y. 642

T**Technical School and College Machinery.**

J. A. Fay & Egan Co., Cincinnati, O. 1118

Threshers.

C. Aultman & Co., Canton, Ohio. 430

Toilet Articles and Novelties.

Joy & Seliger Co., Newark, N. J. 351

Toilet Requisites	
E. L. Boggs, Charleston, W. Va.....	1031
Tools and Supplies.	
Walworth Mfg. Co., Boston Mass.....	486
Type Founders.	
Marder, Luse & Co., Chicago, Ill.....	643
Typewriters.	
Wyckoff, Seamans & Benedict (Remington), New York City.....	356
The Munson Typewriter Co.....	1035
Twist Drills.	
Cleveland Twist Drill Co., Cleveland, Ohio	433
The Standard Tool Co., Cleveland, Ohio..	679

U

Upright Drills.	
Prentice Bros., Worcester, Mass.....	484

V

Varnish Makers.	
The O'Brien Varnish Co., South Bend, Ind.	358
Valves.	
Western Valve Co., Chicago, Ill.....	358
Vehicles.	
Elkhart Carriage & Harness Mfg. Co., Elkhart, Ind.....	821

W

Wall Paper.	
Wm. Woolams & Co., London, Eng.....	1010
Watch Chains.	
Kent & Stanley Company, Providence, R. I.	215
Watches.	
Waterbury Watch Co., Waterbury, Conn.	341
Windlasses and Capstans.	
American Ship Windlass Co., Providence, R. I.....	826
Windmills.	
Fairbanks, Morse & Co., Chicago, Ill....	769
Flint & Walling Mfg. Co., Kendallville, Ind.	444
Wood Split Pulleys.	
Dodge M'fg Co., Mishawaka, Ind., and Chicago, Ill.....	435
Wire and Wire Rope.	
John A. Roebling's Sons Co., Chicago, Ill.	358
George Cradock & Co., Wakefield, Eng...	1032
Wire Manufacturers.	
Washburn Moen M'fg Co., Worcester, Mass., New York, Chicago, Waukegan, San Francisco.....	357
Wood Mantels Manufactures.	
Ehman & Simon M'fg Co., Chicago, Ill....	351
Woodworking Machinery.	
J. A. Fay & Egan Co., Cincinnati, O.....	1118



OFFICERS OF THE WORLD'S COLUMBIAN COMMISSION.

2. THOMAS M. WALLER,
1st Vice-Pres.
5. GORTON W. ALLEN,
4th Vice-Pres.
8. H. P. PLATT,
Vice-Chairman Executive Com.

1. THOMAS W. PALMER,
President.
4. DAVIDSON R. PENN.,
3d Vice-Pres.
7. JOHN T. DICKINSON,
Secretary.

3. M. H. DEYOUNG,
2d Vice-Pres.
6. ALEX. B. ANDREWS,
5th Vice-Pres.
9. GEORGE R. DAVIS,
Director-General.

OFFICERS OF THE WORLD'S COLUMBIAN COMMISSION

President, THOMAS W. PALMER, of Michigan.
1st Vice-Pres., THOMAS M. WALLER, of Connecticut.
2d Vice-Pres., M. H. DE YOUNG, of California.
3d Vice-Pres., DAVIDSON B. PENN, of Louisiana.
4th Vice-Pres., GORTON W. ALLEN, of New York.
5th Vice-Pres., ALEXANDER B. ANDREWS, of North Carolina.
Secretary, JOHN T. DICKINSON, of Texas.
Vice-Chairman Executive Committee, H. P. PLATT, of Ohio.

Director-General,
 GEORGE R. DAVIS, of Illinois.

COMMISSIONERS-AT-LARGE.

COMMISSIONERS

Augustus G. Bullock, Worcester, Mass.
 Gorton W. Allen, Auburn, N. Y.
 Peter A. B. Widener, Philadelphia, Pa.
 Thomas W. Palmer, Detroit, Mich.
 R. W. Furnas, Brownville, Neb.
 Patrick Walsh, Augusta, Ga.
 Henry Exall, Dallas, Tex.
 Mark L. McDonald, Santa Rosa, Cal.

ALTERNATES.

Henry Ingalls, Wiscasset, Me.
 Louis Fitzgerald, New York, N. Y.
 John W. Chalfant, Pittsburgh, Pa.
 James Oliver, South Bend, Ind.
 Hale G. Parker, St. Louis, Mo.
 John B. Castleman, Louisville, Ky.
 H. C. King, San Antonio, Tex.
 Thomas Burke, Seattle, Wash.

COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

COMMISSIONERS.

Alexander T. Britton, Washington.
 Albert A. Wilson, Washington.

ALTERNATES.

E. Kurtz Johnson, Washington.
 Dorsey Clagett, Washington.

OFFICERS OF THE WORLD'S COLUMBIAN EXPOSITION

Incorporated as a legal body under the laws of the State of Illinois, and one of the agencies provided for in the act of Congress creating the Exposition.

President, HARLOW N. HIGINBOTHAM.
1st Vice-Pres., FERDINAND W. PECK.
2d Vice-Pres., ROBERT A. WALLER.
Secretary, HOWARD O. EDMONDS.
Assistant Secretary, SAMUEL A. CRAWFORD.
Treasurer, ANTHONY F. SEEBERGER.
Auditor, WILLIAM K. ACKERMAN.
Assistant Auditor, CHARLES V. BARRINGTON.

LAW DEPARTMENT.

Attorney,
W. K. CARLISLE.
Assistant Attorneys,
GEORGE PACKARD.
CHAS. H. BALDWIN.

Attorney of Ways and Means Committee,
JOSEPH CUMMINS.

BOARD OF DIRECTORS.

Regular meeting on the second Friday of each month.

William T. Baker—The Temple.
C. K. G. Billings—2 Madison Street.
Thomas B. Bryan—556 Rand-McNally B'ld'g.
Edward B. Butler—Franklin and Congress Sts.
Isaac N. Camp—State and Jackson Streets.
William J. Chalmers—Fulton and Union Sts.
Robert C. Clowry—150 Washington Street.
Charles H. Chappell—Chicago & Alton R. R.
Mark L. Crawford—House of Correction.
George R. Davis—Jackson Park.
Arthur Dixon—299 Fifth Avenue.
James W. Ellsworth—Phenix Building.
Lyman J. Gage—First National Bank.
Carter H. Harrison—Mayor of Chicago.
Charles Henrotin—169 Dearborn Street.
H. N. Higinbotham—Jackson Park.
Charles L. Hutchinson—Corn Exchange Bank.
Elbridge G. Keith, Metropolitan Nat'l Bank.
William D. Kerfoot—85 Washington Street.
William P. Ketcham—Hoyne and Blue Island
Avenues.
Milton W. Kirk—Care James S. Kirk & Co.
V. F. Lawson—*Daily News*.

Edward F. Lawrence—First National Bank.
Thies J. Lefens—Room 1, 80 LaSalle Street.
Andrew McNally—Rand-McNally Building.
Adolph Nathan—Franklin and Jackson Streets.
John J. P. Odell—Union National Bank.
Ferdinand W. Peck—110 Auditorium B'ld'g.
E. M. Phelps—Phelps, Dodge & Palmer.
Washington Porter—Room 7, 108 Dearborn St.
Alexander H. Revell—Wabash Avenue and
Adams Street.
Edward P. Ripley—207 Rand-McNally B'ld'g.
A. M. Rothschild—203 Monroe Street.
George Schneider—115 Dearborn Street.
Charles H. Schwab—Jackson Park.
J. W. Scott—Chicago *Herald*.
Henry B. Stone—203 Washington Street.
Charles H. Wacker—171 North Desplaines St.
Edwin Walker—616 Rookery Building.
Robert A. Waller—164 LaSalle Street.
John C. Welling—78 Michigan Avenue.
Frederick S. Winston—Monadnock Building.
G. H. Wheeler—2020 State Street.
Charles T. Yerkes—444 North Clark Street.
Otto Young—The Fair.



OFFICERS WORLD'S COLUMBIAN EXPOSITION.

1. Anthony F. Seeberger, *Treasurer.*
2. Ferdinand W. Peck, *1st Vice-President.*
3. Robert A. Waller, *2d Vice-President.*
4. Harlow N. Higinbotham, *President.*
5. Howard O. Edmonds, *Secretary.*
6. Samuel A. Crawford, *Assistant Secretary.*
- *7. William K. Ackerman, *Auditor.*
8. Charles V. Barrington, *Assistant Auditor.*



OFFICERS OF THE BOARD OF LADY MANAGERS.

1. MRS. POTTER PALMER,
President.
2. MRS. RALPH TRAUTMAN of New York,
First Vice-President.
3. MRS. BERIAH WILKINS of District of Columbia,
Fifth Vice-President.
4. MRS. EDWIN C. BURLEIGH of Maine,
Second Vice-President.
5. MISS KATHERINE L. MINOR of Louisiana,
Fourth Vice-President.
6. MRS. CHARLES PRICE of North Carolina,
Third Vice-President.
7. MRS. FLORA BEALL GINTY of Wisconsin,
Seventh Vice-President.
8. MRS. RUSSEL B. HARRISON of Montana,
Vice-President-at-Large.
9. MRS. VIRGINIA C. MEREDITH of Indiana,
Vice-Chairman Executive Com.
10. MRS. SUSAN GALE COOKE of Tennessee,
Secretary.
11. MRS. HELEN M. BARKER of South Dakota,
Supt. Industrial Department.

Officers of Board of Lady Managers of the World's Columbian Commission.

President, MRS. POTTER PALMER, of Chicago.

1st Vice-President, MRS. RALPH TRAUTMANN, of New York.

2d Vice-President, MRS. EDWIN C. BURLEIGH, of Maine.

3d Vice-President, MRS. CHARLES PRICE, of North Carolina.

4th Vice-President, MISS KATHERINE L. MINOR, of Louisiana.

5th Vice-President, MRS. BERIAH WILKINS, of the District of Columbia.

6th Vice-President, MRS. M. D. THATCHER, of Colorado.

7th Vice-President, MRS. FLORA BEALL GINTY, of Wisconsin.

8th Vice-President, MRS. MARGARET BLAINE SALISBURY, of Utah.

Vice-President-at-Large, MRS. RUSSELL B. HARRISON, of Montana.

Vice-Chairman Executive Committee, MRS. VIRGINIA C. MEREDITH, of Indiana.

Secretary, MRS. SUSAN G. COOKE, of Tennessee.

MRS. HELEN M. BARKER, of South Dakota,

Superintendent Industrial Department.

MRS. AMEY M. STARKWEATHER, of Rhode Island,

Superintendent State Work.

MRS. VIRGINIA C. MEREDITH, of Indiana,

Chairman Committee on Awards.

MRS. CANDACE WHEELER, of New York,

Director of the Woman's Building.

NOMINATED BY COMMISSIONERS-AT-LARGE.

LADY MANAGERS.

Mrs. D. F. Verdenal,
New York.

Mrs. Mary Cecil Cantrill,
Georgetown, Ky.

Mrs. Mary S. Lockwood,
812 12th St., Washington, D. C.

Mrs. John J. Bagley,
Detroit, Mich.

Miss Ellen A. Ford,
252 Broadway, New York.

Mrs. Mary S. Harrison,
Helena, Montana.

Mrs. Ida A. Elkins Tyler,
Bullitt Building, Philadelphia, Pa.

Mrs. Rosine Ryan,
Austin, Texas.

LADY ALTERNATES.

Mrs. Ben C. Truman,
Los Angeles, Cal.

Mrs. Nancy Huston Banks,
Morganfield, Ky.

Mrs. James B. Stone,
137 Vernon St., Worcester, Mass.

Mrs. Schuyler Colfax,
South Bend, Ind.

Mrs. Helen A. Peck,
3100 Troost Ave., Kansas City, Mo.

Miss Caroline E. Dennis,
Auburn, N. Y.

Mrs. Geo. R. Yarrow,
2213 Green St., Philadelphia, Pa.

Board of Reference and Control.

WORLD'S COLUMBIAN COMMISSION.

MEMBERS.

THOMAS W. PALMER, of Michigan, *President*.
 H. P. PLATT, of Ohio, *Vice-Pres.*
 GEORGE V. MASSEY, of Delaware.
 R. L. SAUNDERS, of Mississippi.
 MICHAEL H. DE YOUNG, of California.
 THOMAS M. WALLER, of Connecticut.
 ELIJAH B. MARTINDALE, of Indiana.
 J. W. ST. CLAIR, of West Virginia.

ALTERNATES.

M. H. LANE, of Michigan.
 V. D. GRONER, of Virginia.
 P. H. LANNAN, of Utah.
 THOMAS SMITH, of New Jersey.
 O. V. TOUSLEY, of Minnesota.
 EUCLID MARTIN, of Nebraska.

JOHN T. DICKINSON, of Texas, *Secretary*.

WORLD'S COLUMBIAN EXPOSITION.

H. N. HIGINBOTHAM, *President*.

R. A. WALLER.
 EDWIN WALKER.
 E. P. RIPLEY.
 FERDINAND W. PECK.

L. J. GAGE
 H. B. STONE.
 JOHN J. P. ODELL.

H. O. EDMONDS, *Secretary*.

Council of Administration.

Consisting of two members of the World's Columbian Commission and two Directors of the World's Columbian Exposition.

HARLOW N. HIGINBOTHAM, *Chairman*.
 (President World's Columbian Exposition.)

GEORGE V. MASSEY,
 National Commissioner from Delaware.

CHARLES H. SCHWAB,
 Director World's Columbian Exposition.

J. W. ST. CLAIR,
 National Commissioner from West Virginia.

A. W. SAWYER, *Secretary*.

The World's Congress Auxiliary

Of the World's Columbian Exposition.

CHARLES C. BONNEY, *President*.

THOMAS B. BRYAN, *Vice-President*.

LYMAN J. GAGE, *Treasurer*.

BENJAMIN BUTTERWORTH. } *Secretaries.*
 C. E. YOUNG.

COMMITTEES

OF THE

WORLD'S COLUMBIAN EXPOSITION

1892-3

EXECUTIVE COMMITTEE.

Consisting of the President and two Vice-Presidents, ex-Presidents, who are members of the Board, the Director-General and the Chairmen of the Standing Committees.

HARLOW N. HIGINBOTHAM, *President.*

FERDINAND W. PECK, *1st Vice-President.*

ROBERT A. WALLER, *2d Vice-President.*

GEORGE R. DAVIS, *Director-General.*

Henry B. Stone.
Edwin Walker.
Wm. D. Kerfoot.
Chas. H. Schwab.
Alexander H. Revell.
Edward P. Ripley.
Charles L. Hutchinson.

James W. Ellsworth.
Robert C. Clowry.
John J. P. Odell.
Edward B. Butler.
Thies J. Lefens.
Lyman J. Gage.
Wm. T. Baker.

Regular meeting of the Executive Committee Wednesday of each week at 3 o'clock P. M.

STANDING COMMITTEES.

The President and the Director-General are ex-officio members of all standing committees of the Directory.

FINANCE.

Ferdinand W. Peck, Chairman.
Elbridge G. Keith. John J. P. Odell.
Lyman J. Gage. James W. Ellsworth.

GROUND'S AND BUILDINGS.

Henry B. Stone, Chairman.
Lyman J. Gage. Robert C. Clowry.
Wm. P. Ketcham. Edward F. Lawrence.
Charles H. Schwab. Erskine M. Phelps:

LEGISLATION.

Edwin Walker, Chairman.
Fred S. Winston. Ferd. W. Peck.
Arthur Dixon.

AGRICULTURE.

William D. Kerfoot, Chairman.
Thies J. Lefens. Isaac N. Camp.
George Schneider. Washington Porter.

MINES, MINING AND FISH.

Charles H. Schwab, Chairman.
William J. Chalmers. Mark L. Crawford.
John C. Welling. George H. Wheeler.

PRESS AND PRINTING.

Alexander H. Revell, Chairman.
James W. Scott. V. F. Lawson.
Milton W. Kirk. George Schneider.
R. J. Murphy, Secretary.

TRANSPORTATION.

Edward P. Ripley, Chairman.
Henry B. Stone. Charles H. Chappell.
John C. Welling. Arthur Dixon.

FINE ARTS.

Charles L. Hutchinson, Chairman.
James W. Ellsworth. Elbridge G. Keith.
Charles T. Yerkes. Thomas B. Bryan.

LIBERAL ARTS.

James W. Ellsworth, Chairman.
Robert A. Waller. Isaac N. Camp.
Alexander H. Revell. William T. Baker.

ELECTRICITY, ELECTRICAL AND PNEUMATICAL APPLIANCES.

Robert C. Clowry, Chairman.
Charles H. Wacker. C. K. G. Billings.
Mark L. Crawford. Charles L. Hutchinson.

MANUFACTURES AND MACHINERY.

John J. P. Odell, Chairman.
Adolph Nathan. A. M. Rothschild.
Erskine M. Phelps. Andrew McNally.

WAYS AND MEANS.

Edward B. Butler, Chairman.
Adolph Nathan. George Schneider.
Edward F. Lawrence. Edward P. Ripley.
Charles H. Wacker. Milton W. Kirk.
Wm. J. Chalmers. Andrew McNally.
Robert A. Waller. Washington Porter.
Wm. D. Kerfoot. Otto Young.
Sam. A. Crawford, Secretary.

FOREIGN EXHIBITS.

Thies J. Lefens, Chairman.
William T. Baker. Charles H. Wacker.
Thomas B. Bryan. Charles Henrotin.
R. L. Fearn, Secretary.

SPECIAL COMMITTEE ON CEREMONIES.

Edward F. Lawrence, Chairman.
James W. Ellsworth. Charles H. Wacker.
Charles T. Yerkes. William D. Kerfoot.
James W. Scott. Charles Henrotin.
Alexander H. Revell. William P. Ketchum.
Thomas B. Bryan.
E. C. Culp, Secretary.

Board of Management and Control.

THE UNITED STATES GOVERNMENT EXHIBIT.

MR. EDWIN WILLITS,

Chairman.

W. E. CURTIS,

Department of State, to represent that department.

FRED A. STOCKS,

To represent the Treasury Department.

MAJOR CLIFTON COMLY,

United States Army, to represent the War Department.

CAPTAIN R. W. MEADE,

United States Navy, to represent the Navy Department.

A. D. HAZEN,

Third Assistant Postmaster-General, to represent the Postoffice Department.

HORACE A. TAYLOR,

Commissioner of Railroads, to represent the Department of the Interior.

ELIJAH C. FOSTER,

General Agent of the Department of Justice, to represent that department.

EDWIN WILLITS,

Assistant Secretary of Agriculture, to represent the Department of Agriculture.

PROFESSOR G. BROWN GOODE,

Assistant Secretary Smithsonian Institution, to represent that institution and the National Museum.

TARLETON H. BEAN,

United States Fish Commission.

F. T. BICKFORD,

Secretary and Executive-Officer.

BUREAU OF ADMISSIONS AND COLLECTIONS.

Consisting of the President of the World's Columbian Exposition, the Chairmen of the Committees of Ways and Means and Finance, and the Treasurer and Auditor.

EDWARD B. BUTLER,

Chairman.

HARLOW N. HIGINBOTHAM.

ANTHONY F. SEEBERGER.

FERDINAND W. PECK.

WILLIAM K. ACKERMAN.

H. O. EDMONDS,

Secretary.

HORACE TUCKER,

Superintendent of Admissions.

E. A. FELDER,

Assistant Superintendent.

PAUL BLACKMAR,

Superintendent of Collections.

WILLIAM E. CASH,

Assistant Superintendent of Collections.

BUREAU OF PUBLIC COMFORT.

BOARD OF CONTROL.

H. N. HIGINBOTHAM,

Chairman.

E. B. BUTLER.

R. A. WALLER.

W. MARSH KASSON,

Chief of Bureau.

HENRY S. TUTHILL,

Superintendent of Hotel and Rooming Department.

DIRECTOR-GENERAL AND OFFICERS.

Director-General,
GEORGE R. DAVIS.

Chiefs of Departments.

Agriculture	-	-	-	-	-	-	-	-	-	W. I. BUCHANAN
Horticulture	-	-	-	-	-	-	-	-	-	J. M. SAMUELS
Fish, Fisheries, Fish Products, etc.	-	-	-	-	-	-	-	-	-	J. W. COLLINS
Mines, Mining and Metallurgy	-	-	-	-	-	-	-	-	-	FRED. J. V. SKIFF
Machinery	-	-	-	-	-	-	-	-	-	L. W. ROBINSON
Transportation Exhibits, (Railways, Vessels and Vehicles)	-	-	-	-	-	-	-	-	-	WILLARD A. SMITH
Manufactures	-	-	-	-	-	-	-	-	-	JAMES ALLISON
Electricity and Electrical Appliances	-	-	-	-	-	-	-	-	-	J. P. BARRETT
Fine Arts	-	-	-	-	-	-	-	-	-	HALSEY C. IVES
Liberal Arts	-	-	-	-	-	-	-	-	-	SELIM H. PEABODY
Ethnology	-	-	-	-	-	-	-	-	-	FRED. W. PUTNAM
Publicity and Promotion	-	-	-	-	-	-	-	-	-	MOSES P. HANDY
Foreign Affairs	-	-	-	-	-	-	-	-	-	WALKER FEARNS

Commissioner-at-Large,
THOMAS B. BRYAN.

Military and Naval Attaches.

WM. BAINBRIDGE HOFF, Commander, U. S. N.
D. N. BERTOLETTE, Surgeon, U. S. N.
ROGER WELLES, Ensign, U. S. N.
J. C. IRVINE, Lieut., U. S. A.

Principal Clerks.

Chief Clerk	-	-	-	-	-	-	-	-	-	EBEN BREWER
Secretary	-	-	-	-	-	-	-	-	-	E. H. TAYLOR
Private Secretary	-	-	-	-	-	-	-	-	-	N. E. DAWSON

Installation Officers.

Secretary of Installation	-	-	-	-	-	-	-	-	-	JOSEPH HIRST
Special Agent for Foreign Exhibits	-	-	-	-	-	-	-	-	-	FRED. BRACKETT

DEPARTMENTS.

A.—Agriculture, Food and Food Products, Farming Machinery and Appliances.

W. I. BUCHANAN, *Chief.*
A. B. Hurt, *Secretary.*
L. M. Evans, *Supt. of Forestry.*
James Mortimer, *Supt. Kennel Division.*
A. M. Garland, *Supt. Sheep Division.*
J. B. Dinsmore, *Supt. Cattle Division.*

B.—Horticulture, Floriculture, etc.

J. M. SAMUELS, *Chief.*
J. P. Crane, *Chief Clerk.*
John Thorpe, *Supt. of Floriculture.*
Ben C. Truman, *Assistant Supt. of Floriculture.*
Hugh M. Hughes, *Supt. of Grounds.*
Charles Wright, *Supt. of Pomology.*
H. M. La Rue, *Supt. of Viticulture.*

C.—Live Stock—Domestic and Wild Animals.

W. I. BUCHANAN, *Chief Department A, in charge.*

D.—Fish, Fisheries, Fish Products and Apparatus of Fishing.

J. W. COLLINS, *Chief.*
J. M. Whitelaw, *Supt. of Building.*
Dr. James A. Henshall, *Assistant in charge of Angling Exhibit.*
E. C. Bryan, *Secretary.*

E.—Mines, Mining and Metallurgy.

FREDERICK J. V. SKIFF, *Chief.*
F. A. Trittle, *Supt. of Building.*
E. L. Burchard, *Chief Clerk.*
D. C. Boyce, *Expert, Coal and Iron.*
J. Stockley Carey, *Chemist and Assayer.*
S. J. Macomber, *Machinery Expert.*
W. A. Raborg, *Mineralogist.*

F.—Machinery.

L. W. ROBINSON, *Chief.*
H. Fitz-John Porter, *Engineer.*

G.—Transportation Exhibits, (Railways, Vessels and Vehicles).

WILLARD A. SMITH, *Chief*.
 Miss Bessie B. Boyer, *Secretary*.
 T. Hackworth Young, *Superintendent Railway Division*.
 A. A. Abbott, *Superintendent Vehicle Division*.
 Lieut. A. C. Baker, U. S. N., *Superintendent Marine Division*.

H.—Manufactures.

JAMES ALLISON, *Chief*.
 Frank R. Williams, *Assistant Chief*.
 Clinton Collier, *Superintendent Shoe and Leather Division*.

J.—Electricity and Electrical Appliances.

PROF. JOHN P. BARRETT, *Chief*.
 Dr. J. Allan Hornsby, *Assistant Chief*.
 Willis Hawley, *Assistant*.

K.—Fine Arts.

HALSEY C. IVES, *Chief*.
 C. M. Kurtz, *Assistant to Chief*.
 Miss Sara T. Hallowell, *Assistant*.
 George Corliss, *Supt. of Galleries*.

L.—Liberal Arts.

SELIM H. PEABODY, *Chief*.
 C. P. Umstot, *Chief Clerk*.
 F. W. Brewer, *Superintendent of Hygiene and Sanitation*.
 Wm. O. Pratt, *Supt. of Education*.
 N. S. Rosenau, *Superintendent of Charities and Corrections*.
 Theodore Thomas, *Musical Director*.
 W. L. Tomlins, *Choral Director*.
 G. H. Wilson, *Secy. Music and Drama*.

M.—Ethnology.

PROF. FREDERICK W. PUTNAM, *Chief*.
 Dr. Franz Boas, *Assistant*.

Miss F. H. Meade, *Secretary*.

Professor Joseph Jastrow, *Supt. Section of Psychology*.

Professor H. G. Donaldson, *Supt. Section of Neurology*.

Mr. G. A. Dorsey, *Supt. Section of Archaeology*.

Mr. Stewart Culin, *Supt. Section of Religions, Games and Folk-lore*.

N.—Forestry.

W. I. Buchanan, *Chief*.
 L. M. Evans, *Superintendent*.

O.—Publicity and Promotion.

MOSES P. HANDY, *Chief*.
 J. P. Holland, *Supt. Bur. of Information*.
 Paul Hull, *Supt. Catalogue Division*.
 H. W. Cannon, *Chief Clerk*.
 Frank Rigler, *Supt. Mailing Division*.
 Adelaide F. Willson, *Private Secretary*.
 Sam V. Steele, *Official Reporter*.

Editorial Assistants.

W. M. Knox,
 Nancy Huston Banks,
 Victor Sarnier,
 L. A. Aymé,
 C. S. Busbey,
 W. C. Gates, *Bus. Mgr. Official Paper*.

P.—Foreign Affairs.

WALKER FEARN, *Chief*.
 Richard Lee Fearn, *Secretary*.
 S. Chapman Simms, *Assistant Secretary*.
 Lieut. Fletcher S. Bassett, U. S. N. (retired), *Interpreter*.
 C. R. Pickard, *Chief Clerk*.
 Latin-American Bureau.
 William E. Curtis.
 Roger Wells, Jr., Ensign, U. S. N.
 E. D. York.

Director of Works and Officers.

Service Building, near Sixty-second street entrance.

D. H. BURNHAM,

Director of Works.

E. R. GRAHAM,

Assistant Director of Works.

M. B. PICKETT,

Secretary of Works.

F. L. OLMSTED & Co.,
Landscape Architects.

CHARLES B. ATWOOD,
Designer-in-Chief.

F. D. MILLET,
Director of Decoration.

C. Y. TURNER,
Assistant Director of Decoration.

W. H. HOLCOMB,
General Manager of Transportation.

E. G. NOURSE,
Assistant General Manager of Transportation.

COL. EDMUND RICE, U. S. A.,
Commandant Columbian Guard.

E. C. SHANKLAND,
Chief Engineer.

CHARLES F. FOSTER,
Mechanical Engineer.

WILLIAM S. MCHARG,
Engineer of Water Supply and Sewerage.

C. M. WILKES,
Assistant Engineer Water Department.

JOHN W. ALVORD,
Engineer of Grades and Surveys.

C. H. BINKLEY,
Assistant Engineer, Grades and Surveys.

F. O. CLOYS,
Chief Draftsman.

JOHN E. OWENS, M. D.,
Medical Director.

R. ULRICH,
Superintendent of Landscape.

E. D. ALLEN,
Superintendent of Painting.

R. H. PIERCE,
Electrical Engineer.

C. D. ARNOLD,
Chief Department of Photography.

EDWARD W. MURPHY,
*Fire Marshal, 14th Battalion Chicago Fire
Department.*

F. J. MULCAHY,
Purchasing Agent.

W. D. RICHARDSON,
General Superintendent of Buildings.

D. A. COLLINS,
Superintendent of Interior Docking.

E. R. LORING,
Superintendent of Plumbing.

A. A. CLARK,
Superintendent of Midway Plaisance.

J. WORCESTER,
Superintendent of Elevated Railway.

W. E. BROWN,
B. B. CHEESEMAN,

J. K. FREITAG,
H. S. HIBBARD,

C. A. JORDAN,
J. H. MURPHY,

A. C. SPEED,
F. W. WATTS,

M. YOUNG,
Building Superintendents.

Officers of United States Army.

On Duty in Connection with the World's Columbian Exposition.

On duty with the Government exhibits:

Major Clifton Comly, Ordnance Department, Government Building.
 Major G. M. Randall, 4th Infantry, Government Building.
 Capt. L. A. La Garde, Medical Department, Government Building.
 Capt. A. H. Russell, Ordnance Department, Government Building.
 Capt. R. E. Thompson, Signal Department, Government Building.
 Capt. J. G. Bourke, 3d Cavalry, Government Building.
 Capt. D. M. Appel, Medical Department, Attending Surgeon.
 Capt. C. H. Heyl, 23d Infantry, Government Building.
 Capt. F. A. Edwards, 1st Cavalry, Government Building.
 Capt. John Rodgers, Quartermaster's Department.
 Capt. A. H. Harbach, 20th Infantry, Quartermaster's Department.
 Lieut. H. L. Harris, 1st Artillery, Quartermaster's Department.
 Lieut. C. B. Wheeler, Ordnance Department.
 Lieut. A. M. Palmer, 24th Infantry, Quartermaster's Department.
 Lieut. H. C. Benson, 4th Cavalry, Quartermaster's Department.
 Lieut. C. W. Fenton, 7th Cavalry, Quartermaster's Department.
 Lieut. J. A. Dapray, 23d Infantry, Quartermaster's Department.

On duty in connection with the World's Columbian Exposition, by virtue of the Act of Congress, August, 1892:

Bvt. Lieut. Col. Edmund Rice, 5th Infantry, Service Building.
 Capt. W. S. Schuyler, 5th Cavalry, Service Building.
 Capt. E. J. McClernand, 2d Cavalry, Service Building.
 Capt. F. A. Smith, 12th Infantry, Service Building.
 Capt. William Baird, 6th Cavalry, Service Building.
 Capt. John Pitcher, 1st Cavalry, Administration Building.
 Lieut. M. F. Jamar, 13th Infantry, Service Building.
 Lieut. C. B. Hoppin, 2d Cavalry, Service Building.
 Lieut. J. L. Wilson, 4th Artillery, Service Building.
 Lieut. R. J. C. Irvine, 11th Infantry, Administration Building.
 Lieut. S. M. Foote, 4th Artillery, Service Building.
 Lieut. R. F. Ames, 8th Infantry, Service Building.
 Lieut. G. H. Preston, 9th Cavalry, Administration Building.
 Lieut. C. L. H. Ruggles, 3d Artillery, Service Building.

Naval Officers on Duty at Chicago.

Commodore R. W. Meade, Commanding Battleship Illinois, World's Fair.
 Commander William Bainbridge Hoff, Director-General's Office, Pavilion B, Administration Building.
 Commander J. J. Brice, Lighthouse Inspector, Chamber of Commerce Building.
 Lieut. Commander F. M. Symonds, Terminal Station, Jackson Park.
 Lieut. Commander E. D. Taussig, Battleship Illinois.
 Lieut. Fletcher S. Bassett (retired), Department of Foreign Affairs, Pavilion C, Administration Building.
 Lieut. Asher C. Baker, Chief of Marine Division, Transportation Exhibits Department.
 Lieut. H. C. Poundstone, Battleship Illinois.
 Lieut. G. F. Emmons, United States Government Building.
 Lieut. A. G. Winterhalter, United States Government Building.

Ensign George P. Blow, United States Government Building.
 Ensign W. P. Safford, United States Government Building.
 Ensign Roger Welles, Jr., Department of Foreign Affairs.
 Pay Director F. C. Cosby, Battleship Illinois.
 Chief Engineer L. W. Robinson, Machinery Hall.
 Surgeon D. N. Bertolette, Director-General's Office.
 Past Assistant Surgeon A. H. C. Russell, Battleship Illinois.
 Past Assistant Engineer E. M. Bennett, Battleship Illinois.
 Past Assistant Engineer I. S. K. Reeves, United States Fish Commission, Government Building.
 Prof. O. G. Dodge, Electricity Division, Machinery Hall.

Officers Columbian Guard.

COLONEL EDMUND RICE,
Commandant.

CAPT. FRED A. SMITH,
12th Infantry, Adjutant.

CAPT. C. B. HOPPIN,
2d Cavalry, Quartermaster.

CAPT. G. M. FARNHAM,
Recruiting Officer.

- | | |
|--|---|
| Capt. W. S. Schuyler, 5th Cavalry, Commanding Company No. 10. | 1st Lieut. S. M. Foote, 4th Artillery, Commanding Companies Nos. 21 and 25. |
| Capt. E. J. McClermand, 2d Cavalry, Commanding Company No. 2. | 2d Lieut. Guy H. Preston, 9th Cavalry, Commanding Companies Nos. 8, 15, 17, 27. |
| Capt. William Baird, 6th Cavalry, Commanding Companies Nos. 3, 16, 24, 28. | 2d Lieut. C. L. H. Ruggles, 3d Artillery, Commanding Company No. 18. |
| Capt. John Pitcher, 1st Cavalry, Commanding Companies Nos. 5, 19, 22. | Capt. John Bonfield, Chief Secret Service Bureau. |
| 1st Lieut. M. F. Jamar, 15th Infantry, Commanding Companies Nos. 9, 23. | Capt. H. M. Elliott, Commanding Companies Nos. 4 and 20. |
| 1st Lieut. R. F. Ames, 8th Infantry, Commanding Company No. 13. | Capt. W. J. Sanderson, Commanding Companies Nos. 6, 14, 30. |
| 1st Lieut. J. L. Wilson, 4th Artillery, Commanding Companies Nos. 11 and 26. | Capt. J. J. Siddall, Commanding Companies Nos. 1, 12, 29. |

Transportation Department.

Offices, 3d Floor North End of Terminal Railway Station.

W. H. HOLCOMB,
General Manager

E. G. NOURSE
Assistant General Manager.

W. H. CHRISTMAN,
Chief Clerk.

- | | |
|--|---|
| Captain F. M. Symonds, Superintendent of Marine Division. | R. Bosserman, Superintendent of Warehouses, Room 2. |
| P. Haley, Superintendent of Installation, Rooms 12 and 13. | Thomas Collins, Joint Railway Agent, Room 15. |
| W. E. Green, Superintendent of Railway Terminal, Room 16. | J. D. Mason, Engineer, Room 1. |
| | H. L. Evans, Depot Master, first floor, north-west corner Terminal Station. |

PRE-HISTORICAL.

WHAT may be termed the ante-Columbus, or pre-historical, age of the western half of the globe was when the "oldest inhabitant"—the Mastodon and Mammoth—roved this country. In the skeletons of these huge animals, which have ceased to exist for so many thousand years, there are found flint arrow-heads, which must have been made by men who lived in that time, and by which these wild and terrible creatures were slain. Besides the many animals which belonged entirely to that age, and which there is nothing like now, there were many then upon this continent which we read of now only in foreign countries. The monkey was here, in what we call the United States, and the camel and rhinoceros. What the character was of the people who lived at that time it is impossible to guess.

The first race which has left any distinct traces of itself was the Mound-builders, and it hardly seems as if they could have lived at the time of the Mastodon, for they made pictures of all the things about them, and among those pictures there is nothing which resembles these huge animals. This race of men was not savage, in one sense of the word; they worked hard, a thing which the savage seldom does. They had skill and loved the beautiful. They are called Mound-builders because they have left behind them thousands of immense mounds; some curved, some square, some in the shape of a snake. Sometimes these earth-works have from fourteen to sixteen miles of embankment. Some look as if they may have been the dwelling places of their kings; others seem as if they may have protected temples or altars where they worshiped. This people understood the smelting of ores and mining. Their pottery was far from rude and their implements of warfare very serviceable. They buried their great men under huge pyramids of dirt; but the common people, to judge from the great stack of bones which have been found in parts of the country, were doubtless thrown together and left in the open air. At the time they lived this country must have been thickly populated. It must have taken millions of men to do what they did. No one can guess what became of them, or why they left the possessions upon which they had spent so much time and labor. They disappeared many years before the American Indians roamed through our forests.

The American Indians, as Columbus and his fellow Europeans found them, were not the race that we know. They were said to be well formed, winning, gentle and trustful. They were gracious in their speech and friendly in their manner, with soft brown bodies and delicate movements. Here they lived free as birds, without need of much work, with no cares, until the civilized warriors drove them west and ever west.

TRADITIONAL.

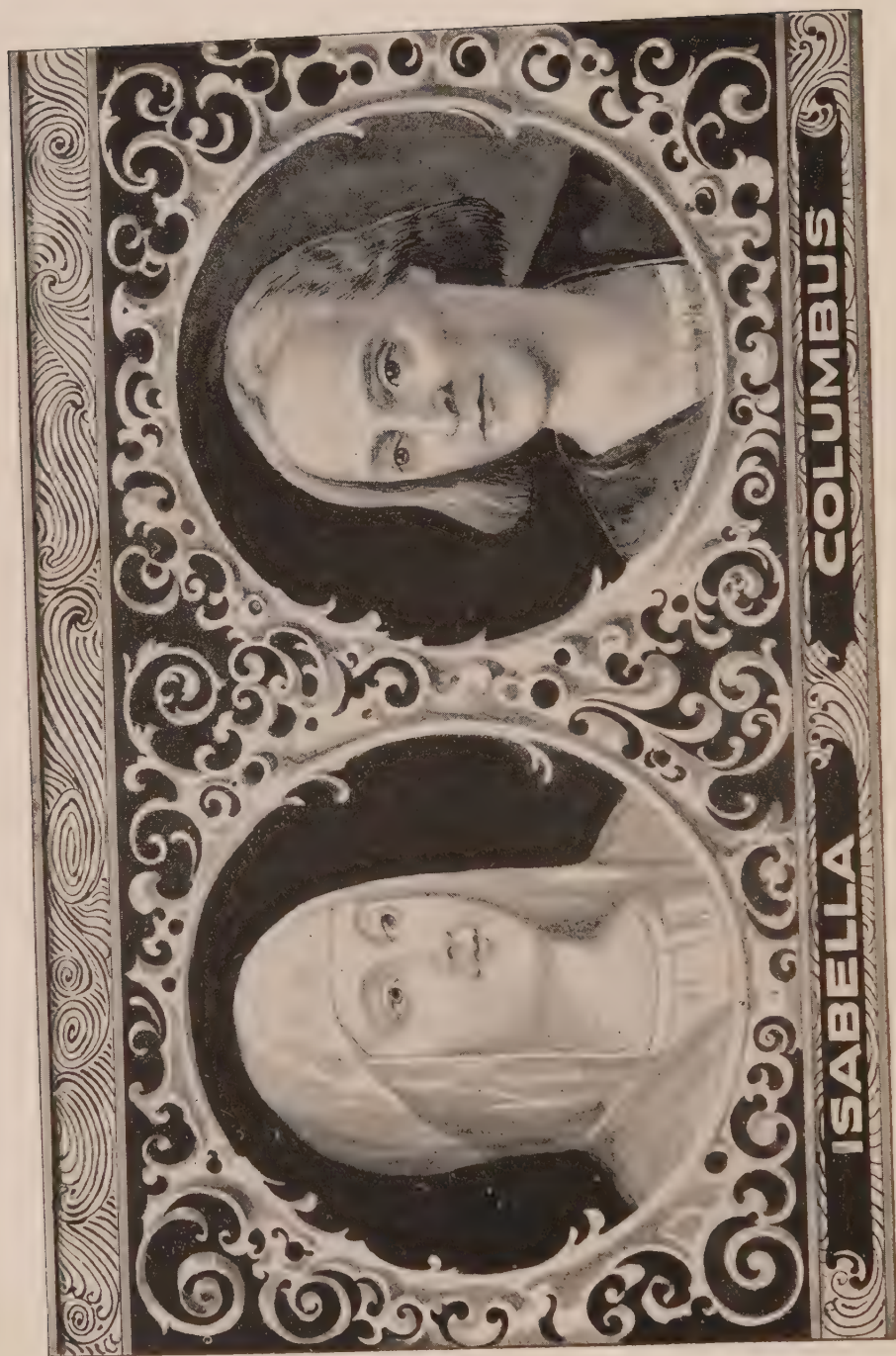
IT is hard to tell which of the nations first found men courageous enough to cross these unknown waters. There are traditions that the Chinese did so, and that these Buddhists wandered down to the California shore and went deep into the country that we now know as Mexico. There are traditions, too, that the Breton fishermen cast their lines upon the Newfoundland coast. It is certainly true that North American Indians have been met with whose languages were mixed with French. The Welshmen also claim that a number of their countrymen came to North America and settled. The traditions concerning this are peculiarly romantic. Two brothers, David and Medoc, quarreled for the throne of Wales. The younger gave up his right, and fitting out a ship sailed west. The next year he returned and said that he had found a fruitful country. He called upon his friends to follow him and filled ten ships with men, women and children. They sailed away and were never heard of again. Reference has been made to them in American writings, wherein they are described as a race of white Indians using many Welsh words and having a manuscript copy of the Bible, in the Welsh language, with them. One reference to them speaks of their living among the upper courses of the Missouri.

But the journeys of the Norsemen to America are well known. These Norsemen were splendid seamen and splendid fighters. They had been all over the known world. They had frightened even the great emperor, Charlemagne, in France, and had put their horses in his palace. Wherever they went they seemed to conquer, until at last they were driven from Scotland. Then, on the melancholy island of Iceland, they made their republic. Two-thirds of the year they lived in twilight. Books were their consolation, the sea their playground. It was no wonder they went this way and that, whenever their fancy prompted and wherever they felt they could fight with weaker men. They discovered Greenland and settled a village there; then in strange, strong, if not fleet ships, went coasting further south. It was Bjarne Herjulfson with his crew who first coasted—driven by adverse winds—along Narragansett Bay, Newfoundland and Nova Scotia. He went back to Iceland with the tales of what he had seen. "What," cried Erik the Red, a wild Norseman who had been banished from his native country for murder, "you saw a new country like that, with green trees and fields, and never put a foot on it?" He talked so much and so long and loud on the subject that his son, Leif Erikson, made up his mind to find out what kind of lands these were which were so much talked about. He bought Bjarne's ship from him, took thirty-five good seamen and went far away to the southwest. They landed in Newfoundland, which they called Helluland, and in Nova Scotia, which they termed Markland. They looked about these countries a little, gave them names, sailed away and were two days at sea before they saw land again. They sailed into a sound, and the grass looked beautiful to these men from a barren country. They found luscious grapes growing wild, grapes from which wine could be made with ease, and a German among them named it Vinland. We have changed the name very little. We call it Martha's Vinyard now. This was in the year 1000. When Leif Erikson reached home, his brother made the complaint that he had brought home much too little news. "You may go in my ship, brother, to Vinland, if you like," said Leif; and thus Thorbald, in the year 1002, went to Vinland and stayed

there three years. It is thought that the skeleton, in armor found near Fall River, Mass., in 1831, was that of Thorbald, who was killed by a poisoned arrow from Indians. In 1005, the last son of Erik the Red started to Vinland to recover the body of his brother Thorbald. His ship was blown out of its course and he never reached his destination. Then came Thorfinn Karlsfenn, with his wife, Gudrid, and with them 151 men and seven women. For three years they lived at Vinland and perhaps built the tower that still stands in Newport, and wrote the inscriptions on the blocks near the Taunton river. On account of constant fights with Indians they went back to Iceland. There are stories of other journeys by the Norsemen in the years 1011 and 1121, and accounts of their going as far south on the Atlantic coast as Florida. The tower which stands at Newport, the only substantial monument that the Norsemen left of their visit, is low and round. It has two windows and a fire-place; the cement with which the stones are put together is still strong, and but for the fact that the roof is gone it could hardly be called a ruin. It is covered with ivy now, and serves the purpose of amusing the chance tourist.

According to Moses F. Sweetser, in his "Hand Book of the United States," the name America comes from *amalric*, or *emmerich*, an old German word spread through Europe by the Goths, and softened in Latin to Americus, and in Italian to Amerigo. It was first applied to Brazil. Americus Vespucius, the son of a wealthy Florentine notary, made several voyages to the New World, a few years later than Columbus, and gave spirited accounts of his discoveries. About the year 1507 Hylacomylus, of the college of St. Dié, in the Vosges mountains, brought out a book on cosmography, in which he said: "Now, truly, as these regions are more widely explored, and another fourth part is discovered by Americus Vespucius, I see no reason why it should not be justly called *Amerigen*; that is, the land of Americus, or America, from Americus, its discoverer, a man of subtle intellect." Hylacomylus invented the name America, and, as there was no other title for the New World, this came gradually into use. It does not appear that Vespucius was a party to this almost accidental transaction, which has made him a monument of a hemisphere.

These are firmly established facts which prove that Christopher Columbus was *not* the first discoverer of the New World, yet his claim to the honors of true discovery are practically allowed by all the civilized world. The additional fact that some four centuries intervened from the time of the short sojourn of the Norsemen until Columbus *did* discover this land, is sufficient as the basis for according the credit to the Genoese.



THE LIFE OF COLUMBUS.

Ages unborn shall bless the happy day
When thy bold steamers steer'd the trackless way;
O'er these delightful realms thy sons shall tread,
And following millions trace the path you led.

—Barlow.

CHRISTOPHER COLUMBUS, the true discoverer of this land of the free and home of the brave, was born at Genoa in 1435. He was the eldest son of Dominico Colombo and Suzanna Fontanarossa. His father was a wool-comber and continued in that business in Genoa and Savona with varying success until his means were such as to enable him to send Christopher to the University of Pavia. Christopher devoted himself to the sciences, particularly nautical astronomy, under the instruction of Stefano di Faenza and Antonio da Terzago. After a course at the university he worked for awhile at his father's trade, and at the age of fifteen he became a sailor. According to the crude chapters of his biography written by Hernando, his son, his early life is dubious and conjectural, and little is known of his apprenticeship at sea. These unknown years, however, were certainly stormy and eventful. "Wherever ship has sailed," he has written, "there have I journeyed." Among other places he visited England, "Ultima Thule" (Iceland), the Guinea Coast and the Greek Isles. For some time he was in the service of René of Provence, for whom he intercepted and seized a Venetian galley with much bravery and audacity. Afterward he sailed with Columbo el Mozo, a bold privateer, and a sea fight under command of this sea-captain was the means of bringing him ashore in Portugal. During these years before the mast and in the rigging his mind was not given to the dross of booty so common to the semi-piratical sailor of those days, but instead, he was fired with an ambition of high achievements by reading and meditating on the works of Ptolemy and Marinus, the cosmographia of Cardinal Aliaco, the writings of Pliny and Nearchus and the travels of Marco Polo and Mandeville. He mastered nautical sciences, learned to draw charts and construct spheres, and thus fitted himself to become a practical seaman and navigator. Like Lincoln, he arose from the humblest surroundings and circumstances to the very highest pinnacle of fame, honor and usefulness, by his own indomitable spirit, pluck and God-given qualities, and no fitter illustration of what the youth of this grand and glorious country can gradually attain to under the broad protection of the Stars and Stripes can be found than in the lives of the illustrious names mentioned. What an inspiration to "dare and do" is found in the life of Christopher Columbus! Particularly admirable is his course as a youth and young man. Unaided by wealth or rank, he *forced* his way to an uncommon position among his associates as apprenticed sailor while yet a mere stripling, and thenceforth he "built above the clouds" by a close application to the solid and substantial studies best adapted to aid him in reaching the goal of a worthy ambition.

After being wrecked in a sea-fight, that began off Cape St. Vincent, and escaping to land on a plank, he arrived at Lisbon. In 1470 he married Felipa Moñiz de Perestrello, daughter of Bartolomeu Perestrello, a captain in the service of Prince Henry, called the Navigator, one of the early colonists and the first governor of Porto Santo, an island off Madeira. Columbus visited the island

and employed his time in making maps and charts for a livelihood, while he pored over the logs and papers of his deceased father-in-law and talked with old seamen of their voyages and of the mystery of the Western seas. About this time he arrived at the conclusion that much of the world remained undiscovered and step by step to have conceived the design of reaching Asia by sailing west, which resulted in the discovery of America. It was to this train of thought, which finally came to fruition, that the New World is the grand outcome and that the whole world has congregated amid the arts, sciences and splendor of modern civilization to do homage to the Genoese, and to celebrate, by an exhibition of the handiwork of all mankind, an event second in importance only to the Beginning, when God said: "Let there be light and there was light."

In 1474 we find Columbus expounding his views to Paolo Toscanelli, the Florentine physician and cosmographer, and receiving the heartiest encouragement. His view of reaching Asia by sailing west he supported with three different arguments derived from natural reasons, from the theories of geographers, and from the reports and traditions of mariners. From the colonists on the Azores Columbus heard of two men being washed up at Flores, "very broad-faced and differing in aspect from Christians." The transport of all these objects was attributed to the west winds and not to the gulf stream, the existence of which was then totally unsuspected. In his northern journey some vague and formless traditions may have reached his ear of the voyages of Bjarn and Leaf, and of the pleasant coasts of Helluland, Markland and Vinland, that lay toward the setting sun. All were hints to bid the bold mariner sail westward, and this he at length determined to do.

The co-operation and concurrence of some state or sovereign, however, was necessary for the success of his designs. The senate of Genoa had the honor to receive the first offer and the responsibility of refusing it. Rejected by his native city the projector turned next to John II., of Portugal. This King had already an open field for discovery and enterprise along the African coast; but he listened to Columbus and referred him to the Committee of Council for Geographical Affairs. The council's report was adverse; but the King, who was yet inclined to favor the theory of the Genoese, assented to the suggestion of the Bishop of Ceuta that the plan should be carried out in secret, and without Columbus' knowledge, by means of a caravel or light frigate. The caravel was dispatched, but it returned after a brief absence, the sailors having lost heart and having refused to venture farther. Upon discovering this dishonorable transaction, Columbus felt so outraged and indignant that he sent his brother Bartholomew to England with letters for Henry VII, to whom he had communicated his ideas. He himself left Lisbon for Spain (1484), taking with him his son Diego, the only issue of his marriage with Felipa Moñiz. He departed secretly, presumably to give the slip to King John. In one of his letters Columbus wrote: "When I came from such a great distance to serve these princes, I abandoned a wife and children, whom, for this cause, I never saw again."

The first traces of Columbus at the court of Spain are on May 5, 1487, when an entry in some accounts reads: "Given to-day 3,000 maravedis (about \$18) to Cristobal Colomo, a stranger." March 20, 1488, a letter was sent by the King to "Christopher Colon, our especial friend," inviting him to return to Portugal and assuring him against arrest and proceedings of any kind, but it was then too late.

Columbus then betook himself to the south of Spain and proposed his plan first to the Duke of Medina Sidonia (who was at once attracted by it, but finally threw it up as visionary and impracticable), and next to the Duke of Medina Celi. The latter gave him great encouragement, entertained him for two years and even determined to furnish him with the three or four caravels. Finally, however, being deterred by the consideration that the enterprise was too vast a subject, he turned his guest from the determination he had come to—of making instant application to the court of France—by writing on his behalf to Queen Isabella, and Columbus repaired to the court at Cordova at her bidding. It was

an ill moment for his fortune. Castille and Leon were in the thick of that struggle which resulted in the final defeat of the Moors, and neither Ferdinand nor Isabella had time to listen; but Columbus was kindly received and was handed over to the care of Alonzo de Quintanilla, whom he speedily converted into an enthusiastic supporter of his theory. He made many other friends and here met with Beatrix Enriquez the mother of his second son, Hernando, who was born August 15, 1488.

From Cordova Columbus followed the court to Salamanca, where he was introduced to the notice of Cardinal Pedro Gonzales de Mendoza, dubbed by some historians, "the third King of Spain." The cardinal, while approving the project, thought strongly that it savored of heterodoxy, but an interview with the projector won him over, and through his influence Columbus at last got an audience of the King. The matter was finally referred, however, to Fernando de Talavera, who, in 1487, summoned a junta of astronomers and cosmographers to confer with Columbus and examine his design and the arguments by which he supported it. The Dominicans of San Esteban in Salamanca entertained Columbus during the conference. The jurors, who were most of them ecclesiastics, were by no means unprejudiced, nor were they disposed to abandon their pretensions to knowledge, contrary to the navigator's views, without a struggle. Columbus argued his point, but was overwhelmed with Biblical texts, with quotations from the great divines, with theological objections, and in a short time the junta was adjourned. Señor Rodriguez Panilla, the learned Salamantine writer, holds that the first refusal of Columbus' project was made in the official council at Cordova. In 1489, Columbus, who had been following the court from place to place (billeted in towns as an officer of the King and gratified from time to time with sums of money toward his expenses), was present at the siege of Malaga. In 1490 the junta decided that his project was vain and impracticable, and that it did not become their highnesses to have anything to do with it, and this was confirmed, with some reservation by their highnesses themselves at Seville.

Columbus was now in despair. So reduced in circumstances was he that (according to the eminent Spanish statesman Emilio Castelar) he was jocularly and universally termed "the stranger with the threadbare coat." He at once betook himself to Huelva, where his brother-in-law resided, with the intention of taking ship to France. He halted, however, at Palos, a little maritime town in Andalusia. At the monastery of Santa Maria de la Rábida he knocked and asked for bread and water for his boy Diego, and presently got into conversation with Fray Juan Perez de Marchena, the prior, who invited him to take up his quarters in the monastery, and introduced him to Garci Fernandez, a physician and a student of geography. To these men Columbus propounded his theory and explained his plan. Juan Perez had been the Queen's confessor; he wrote to her and was summoned to her presence, and money was sent to Columbus to bring him once more to the court. He reached Grenada in time to witness the surrender of the city by the Moors, and negotiations were resumed. Columbus believed in his mission and stood out for high terms; he asked the rank of Admiral at once, the vice-royalty of all he should discover, and a tenth of all the gain, by conquest or by trade. These conditions were rejected and the negotiations were again interrupted. An interview with Mendoza followed, but nothing came of it, and in January, 1492, Columbus actually set out for France. At length, however, on the entreaty of Luis de Santangel, receiver of the ecclesiastical revenues of the crown of Aragon, Isabella was induced to determine on the expedition. A messenger was sent after Columbus and overtook him at the bridge of Piños, about two leagues from Granada. He returned to the camp at Santa Fé, and on April 17, 1492, the agreement between him and their Catholic majesties was signed and sealed. This agreement is familiarly known in Spanish history as "The Capitulations of Santa Fé."

His aims were nothing less than the discovery of the marvelous province of Cipango and the conversion to Christianity of the Grand Kahn, to whom he

received a royal and curious blank letter of introduction. The town of Palos was, by forced levy, as a punishment for former rebellion, ordered to find him three caravels, and these were soon placed at his disposal. But no crews could he get together, Columbus even offering to throw open the jails and take all criminals and broken men who would serve on the expedition; and had not Juan Perez succeeded in interesting Martin Alonzo Pinzon and Vicente Yañez Pinzon in the cause, Columbus' departure had been long delayed. At last, however, men, ships and stores were ready. The expedition consisted of the Gallega, rechristened the Santa Maria, a decked ship, with a crew of fifty men, commanded by the Admiral in person; and of two caravels—the Pinta, with thirty men, under Martin Pinzon, and the Niña, with twenty-four men, under his brother, Vicente Yañez Pinzon, afterward (1499) the first to cross the line in the American Atlantic. The adventurers numbered 120 souls, and on Friday, August 3, 1492, at eight in the morning, the little fleet weighed anchor and stood out for the Canary Islands, sailing as it were "into a world unknown—the cornerstone of a nation."

After a momentous voyage land was sighted Friday, October 12, 1492, and it proved to be the New World. The land sighted was called by the Indians Guanahani, and named by Columbus San Salvador.

The same morning Columbus landed, richly clad, and bearing the royal banner of Spain. He was accompanied by the brothers Pinzon, bearing banners of the Green Cross, a device of his own, and by a part of the crew. When they had all "given thanks to God, kneeling down upon the shore, and kissed the ground with tears of joy for the great mercy received," the Admiral named the island, and took solemn possession of it for their Catholic majesties of Castille and Leon. Had Columbus kept the course he laid on leaving Ferrol, says Castelar, his landfall would have been in the Florida of to-day, that is, upon the main continent; but owing to the deflection it was his hap to strike an island, very fair to look upon, but small and insignificant when compared with the vast island-world in whose waters he was already sailing.



GROUP OF WORLD'S COLUMBIAN COMMISSION MEMBERS AND ALTERNATES
OF THE BOARD OF REFERENCE AND GONTROL.

- | | |
|--|--|
| 1. THOS. W. PALMER,
<i>Michigan.</i> | 2. H. P. PLATT,
<i>Ohio.</i> |
| 3. GEO. V. MASSEY,
<i>Delaware.</i> | 5. MICHAEL H. DEYOUNG,
<i>California.</i> |
| 6. THOS. M. WALLER,
<i>Connecticut.</i> | 8. J. W. ST. CLAIR,
<i>West Virginia.</i> |
| 9. M. H. LANE,
<i>Michigan.</i> | 11. O. V. TOUSLEY,
<i>Minnesota.</i> |
| 12. EUCLID MARTIN,
<i>Nebraska.</i> | 13. JNO. T. DICKINSON,
<i>Texas, Secretary.</i> |
| 4. R. L. SAUNDERS,
<i>Mississippi.</i> | 7. ELIJAH B. MARTINDALE,
<i>Indiana.</i> |
| 10. V. D. GRONER,
<i>Virginia.</i> | |



GROUP OF WORLD'S COLUMBIAN EXPOSITION MEMBERS OF THE BOARD OF
REFERENCE AND CONTROL.

- | | |
|--|---|
| 1. H. N. HIGINBOTHAM,
<i>Chicago.</i> | 2. R. A. WALLER,
<i>Chicago.</i> |
| 3. EDWIN WALKER,
<i>Chicago.</i> | 4. E. P. RIPLEY,
<i>Chicago.</i> |
| 5. FERDINAND W. PECK,
<i>Chicago.</i> | 6. L. J. GAGE,
<i>Chicago.</i> |
| 7. JNO. J. P. ODELL,
<i>Chicago.</i> | 8. H. O. EDMONDS,
<i>Secretary, Chicago.</i> |

HISTORY OF THE EXPOSITION.

AT least two persons claim to have originated the idea of holding a World's Columbian Exposition in 1892 (postponed to 1893). Mr. Alexander D. Anderson, Secretary of the Board of Trade at Washington, D. C., has a number of friends who stoutly defend the claim that he first foreshadowed the project in an interview in the *New York Herald* in 1884. According to the *Washington Post* of December 30, 1891, Mr. Anderson "spent four years' time and \$33,000" in promoting the movement. That journal states that Mr. Anderson presented the question in detail to the citizens of Washington at a public meeting held on the 25th of February, 1886, when committees were appointed, headquarters opened, and an active and vigorous campaign inaugurated. In April, 1886, the memorial of the committee was presented to the United States Senate by Mr. Gorman, of Maryland, and published in full in the *Congressional Record*, diagrams and all. The next step was the transformation of the local board into a national board of promotion. In response to notices of appointment sent out Mr. Anderson received formal letters of acceptance from the governors of forty states and territories, the mayors of fifty-five leading cities, 176 presidents and secretaries of boards of trade throughout the country, and the officers of thirty state and territorial granges, approving of the movement and pledging their co-operation. In addition to this the leading national conventions held during 1886, 1887 and 1888, such as the National Board of Trade, National Grange, American Bankers' Association, International Medical Congress, etc., adopted strong resolutions in support of the project. On the 16th of June, 1888, Hon. Perry Belmont, of New York, then chairman of the Foreign Affairs Committee, submitted to the House of Representatives, in behalf of the committee, a unanimous report in favor of the project, and designating Washington as the place. This report (No. 2601, Fiftieth Congress, first session) was an elaborate document of fifty-seven pages in print, and contains the correspondence above mentioned with governors, mayors, etc., together with the arguments before the committee. When the Exposition bill came up for debate in the House and Senate, due credit was publicly given in each body for the leading part the city of Washington had played in this patriotic work. In the House on February 21, 1890, Hon. Charles E. Hooker, of Mississippi, said in the course of his remarks (quoted from the *Congressional Record*):

"It is but just to say of these non-represented people of the District of Columbia that it was the people of this District who, long before any place was designated for the site of this Exposition, established a board of promotion and for four years have been earnest advocates of holding this great Fair at the Capital of the Nation. [Applause.]"

In the debate in the Senate, on the 21st of April, 1890, Mr. Gorman, of Maryland, said:

"I introduced the bill in 1886, at the request of gentlemen in this city and the boards of trade of the city of Baltimore and elsewhere. The whole project, however, it is due to say, was gotten up and urged by a gentleman who is now a resident of the city of Washington—Mr. A. D. Anderson."

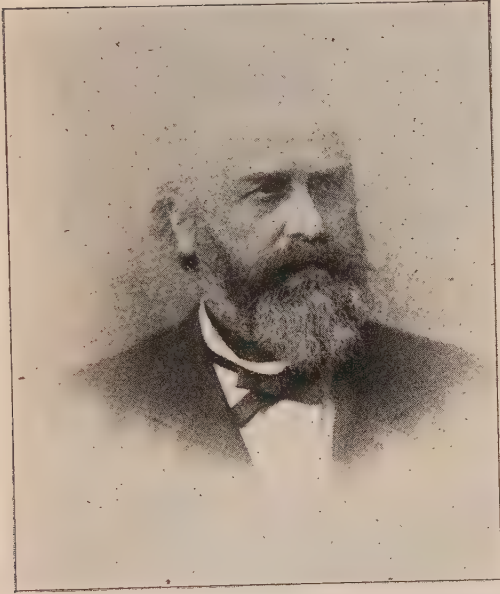
Dr. Charles W. Zaremba, of Chicago, claims that while attending the Centennial Exposition at Philadelphia, on the 9th of September, 1876, he conceived the idea of celebrating the four centenary of America's dis-

covery by Columbus by a World's Fair, about which he talked to many of his friends. In June, 1884, he issued a circular, he says, inviting the foreign ministers at Washington to confer about this event in proper form. Many and most flattering were the replies received by Dr. Zarembo, especially from Hussein Tewfik, the Turkish Minister; Dr. Matias Romero, the Mexican Minister; Señor Amaral Valente, Chargé d' Affairs of Brazil; Señor Joaquin Godoy, the Chilian Minister, and others. The same year he had an audience with General Porfirio Diaz, President of Mexico, and his ministers, all expressing their gratitude to Dr. Zarembo for originating the idea and making it known to the representatives of the world. Dr. Zarembo was born July 29, 1842, at Koenigsburg, Prussia, where his father was a petty officer in the Third Regiment of Cuirassiers, and afterward an internal revenue officer at the city of Memel, where Zarembo attended the primary school until 1854, when in October of that year he entered the military school at Potsdam. In 1857, being transferred to the Military Academy, he studied the higher branches in connection with military education and tactics, becoming at the same time personally acquainted with the late Emperor Frederick of Germany. In 1859, he entered the service of the Royal Guard Artillery at Berlin, and within ten months was transferred to the staff of Prince Wilhelm of Baden, who took special interest in him, and secured a special permit for Zarembo to attend the lectures of the Berlin University. In 1862, he went to Moscow, Russia, and while finishing his studies in medicine and philosophy he wrote a manual of military gymnastics for the Russian army. In September, 1865, Zarembo coming with his mother to Chicago went to St. Joseph, Mich. He soon returned to Chicago, however, and practiced his profession as a physician until the great fire. In 1871, he became one of the founders of the Chicago Athenæum. Dr. Zarembo was one of the prime movers in the Interstate and Industrial Exposition in 1872 and 1873. In November, 1878, when the International Commercial Convention assembled at Farwell Hall, Dr. Zarembo was appointed a city delegate by Mayor Heath. In January, 1879, he started with the first Industrial Excursion from Chicago to Mexico, which formed the entering wedge for American trade in that country.

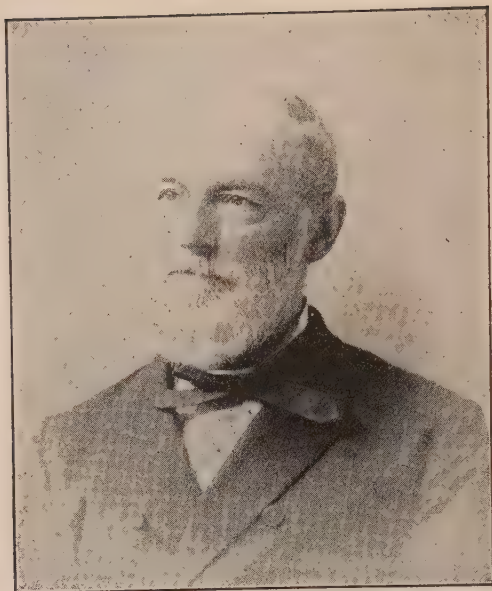
Dr. A. W. Harlan, a dentist of Chicago, first proposed Chicago in print as the location of a Columbian World's Fair. His letter to this effect was printed in the *Chicago Times*, February 16, 1882, and he presented cogent reasons in favor of the plan and location he advocated. This and several succeeding suggestions of a like character slumbered or were really abandoned for lack of support. Later on Mr. Edwin L. Brown made a proposition in the form of a resolution to hold a World's Fair in Chicago, which was adopted by the local Exposition Company. In 1885 Judge Henry M. Shephard instituted a similar movement. The greatest of all Expositions up to that date was then being arranged for in Paris, France, and much interest was manifested in this Exposition by the people of the United States. The success of the Paris Exposition caused a revival of the half-forgotten project of a great Columbian Exposition. The press throughout the United States discussed the propriety of holding such an Exposition. Chicago's public-spirited citizens gave a welcome to the idea, and at once took steps to realize it. The pluck of Chicago's "I Will" at once stamped success on the movement. Prior, however, to the holding of the Paris Exposition, Judge Shephard's activity in formulating plans for a World's Columbian Exposition took shape, and he signed a call for a joint meeting of the Iroquois, Union League, Commercial, University, Illinois, Kenwood and Standard Clubs, to be held in the rooms of the Iroquois Club, July 6, 1888, "to discuss the advisability of holding a World's Fair in Chicago in 1892 (postponed to 1893) and the best means to employ to carry such a project into execution."

At this meeting the following resolution was adopted:

Resolved, That the representatives of the clubs of Chicago assembled in this meeting form an organization in order to hold a World's Fair in the City of Chicago to commemorate the discovery of America by Columbus four hundred years ago.



CARTER H. HARRISON,
MAYOR OF CHICAGO.



DE WITT C. CREGIER,
EX-MAYOR OF CHICAGO.



HEMPSTEAD WASHBURNE,
EX-MAYOR OF CHICAGO.

A second meeting was held July 13, and a committee was appointed with full power to formulate a detailed plan for such an Exposition; but this movement also proved fruitless. The scheme languished and many of the most enthusiastic lost heart. The proposed organization of the clubs was never formed, and for a year no actual progress was made. Meantime the Paris Fair was in the height of its success, and that triumph no doubt stimulated Chicago to renewed efforts for the accomplishment of a project in which its public-spirited citizens would find a crown to the marvelous work that they had done in transforming in a few years prairies, marshes and huts into the Garden City—a city now universally recognized as one of the greatest in the world, and which has arisen from dire disaster of the most destructive conflagration ever known to the proud position of second city in the United States in point of population, and, unquestionably, to the very front rank in point of pluck, energy, enterprise and success; a city, the possibilities of which, being in a comparative stage of infancy, bid fair to outstrip in the near future, not only the other grand and marvelous cities of the New World, but the very European capitals themselves, in the onward march of progress. Famed for its commerce and manufactures; its shipping; its law and order; its bright, intelligent and hospitable citizens; its churches, schools and university; its progress in the arts and sciences; its health; its bracing and cool summer climate; its grand and marvelous buildings; its railroad facilities; its parks, drives and boulevards; its excellent, economical and extensive hotel, restaurant, café and boarding and lodging accommodations; its handsome temples of amusement; its inviting and remunerative field for capital and labor—all conspired to intensify the feeling that, aside from the patriotic motive of a fitting celebration of the discovery of America, the whole world should have an opportunity of seeing for themselves what Chicago really is, and to make of it the Mecca of civilization at least for this period. Soon every citizen from the highest to the humblest had become an advocate of the enterprise. So strong did this popular movement become that the Mayor of the city and the Common Council gave it formal organization.

July 22, 1889, Mayor Dewitt C. Cregier read the following message to the Council in regular session:

Gentlemen of the Council: It is the desire of the City of Chicago to hold a World's Fair in 1892, and the City Government will do all in its power to realize it. Without any prejudice, it can safely be said that Chicago, of all other cities, is the best place in which to hold a great international Fair and make it a brilliant success. Chicago, indeed, is the city most truly manifesting American life, American ideas and American enterprise. In regard to its location, its railroad and hotel facilities, she has no rival. There is sufficient space inside the city limits for the Exposition. The proverbial enterprise and magnanimity of the citizens of Chicago and their unlimited hospitality, showing itself on every occasion, are a sure guarantee of success. Labor, time or money will not be spared. In the face of the organized efforts of other cities, I suggest that an organization, representing all classes of citizens, be formed to secure this great undertaking for this city.

DEWITT C. CREGIER, Mayor.

The Mayor was authorized to appoint a committee of one hundred citizens to outline the preliminary work necessary to secure the Exposition for Chicago. At a subsequent meeting of the Council the Mayor was given discretion as to the size and composition of the committee, in response to a suggestion by him that the committee be increased to two hundred. He thereupon appointed the following:

Adams, Geo. E.
Adams, J. McG.
Aldrich, J. F.
Allerton, S. W.
Allsworth, J.
Altgeld, John P.
Anderson, J.
Anthony, Elliott
Armour, P. D.
Bajnotti, Paul
Baker, Frank
Baker, William T.

Ballard, Addison
Barnum, William H.
Bartlett, A. C.
Beck, A. R.
Berriorabat, F.
Best, William
Billings, A. M.
Birkhoff, George
Bissell, George F.
Black, John C.
Blackstone, T. B.
Blair, Chauncy

Blair, William
Blake, E. N.
Blatchford, E. W.
Blodgett, H. W.
Boerlin, Louis
Boldenweck, William
Booth, A.
Boyesen, I. K.
Bradley, J. Harley
Brand, Rudolph
Bruwaert, F. E.
Bryan, Thomas B.

Buehler, John
 Burley, A. G.
 Cable, R. R.
 Cameron, D. R.
 Carpenter, A. A.
 Carson, John B.
 Cary, Eugene
 Caton, J. D.
 Chase, C. H.
 Chase, Benjamin F.
 Chetlain, A. L.
 Clark, J. B.
 Clark, John E.
 Claussenius, H.
 Clifford, Richard W.
 Collins, Lorin C.
 Colvin, H. D.
 Corbin, H. C.
 Corkery, Daniel
 Counselman, C.
 Cragin, E. F.
 Crane, R. T.
 Crawford, Mark
 Crerar, John
 Cronic, Frank E.
 Crook, General John, U. S. A.
 Cudahy, Michael
 Cummings, A.
 Cummings, C. R.
 Davis, George R.
 Dennehy, Charles
 Dexter, Wirt
 Doane, J. W.
 Donnersberger, J.
 Drake, John B.
 Dreier, Emil
 Dreyer, E. S.
 Ducat, A. C.
 Dunham, R. W.
 Dunlap, Geo. L.
 Eames, Henry F.
 Egan, Wiley M.
 English, William S.
 Evans, Clinton B.
 Ewing, William G.
 Fairbank, N. K.
 Fargo, Charles
 Farlin, Henry J.
 Farwell, J. V.
 Farwell, Senator Charles B.
 Feehan, Archbishop Patrick A.
 Field, Marshall
 Fitz Simons, Charles
 Fuller, Melville W.
 Furber, H. J.
 Gage, Lyman J.
 Garnett, Gwynne
 Gary, Joseph E.
 Gerardin, Victor
 Glenn, T. H.
 Glessner, J. J.
 Goudy, W. C.
 Grammes, J. B.
 Grannis, W. C. D.
 Gregory, S. S.
 Gresham, Walter Q.
 Grinnell, Julius S.
 Gross, S. E.
 Halle, E. G.
 Ham, Charles H.
 Hamilton, John M.
 Hankson, Joseph

Harrison, Carter H.
 Hart, Henry
 Harvey, T. W.
 Hawes, Kirk
 Healy, James T.
 Heath, Monroe
 Henrotin, C.
 Henrotin, C. N.
 Hesing, Washington
 Higgins, Van H.
 Hughitt, Marvin
 Hill, D. K.
 Holmes, C. B.
 Hooley, R. M.
 Horton, O. H.
 Hoyne, F. G.
 Hudson, P. S.
 Hurlbut, Dr. V. L.
 Hurlburt, H. A.
 Hutchinson, C. L.
 Jackson, H. W.
 Jamieson, Egbert
 Jeffrey, E. T.
 Jones, N. S.
 Jones, J. Russell
 Judd, S. Corning
 Keith, E. G.
 Kent, Sidney
 Kerfoot, Wm. D.
 Kern, Charles
 Kimball, C. P.
 Kimball, W.
 King, Henry W.
 King, John A.
 Kinsley, H. M.
 Kiobassa, Peter
 Kirk, James A.
 Knickerbocker, Joshua
 Koch, C. R. E.
 Kohlsaat, H. H.
 Kohn, H. A.
 Kraus, Adolph
 Laffin, Lycurgus
 Laffin, Matthew
 Lawler, Frank
 Lawson, Victor F.
 Lehman, E. J.
 Leiter, Levi Z.
 Leland, Warren
 Lester, John T.
 Libby, A. A.
 Lieb, Herman
 Lincoln, Robert T.
 Lindblom, Robert
 Longenecker, J. M.
 Lowenthal, Bernhard L.
 Mandel, S.
 Marshall, L. A.
 Mason, Roswell B.
 Mason, William E.
 Matejka, U. V.
 Matson, C. R.
 Mayo, John B.
 McAvoy, John H.
 McCagg, E. B.
 McClurg, A. C.
 McConnell, S. P.
 McFarland, H. J.
 McLaren, Bishop Wm. E.
 McMullen, J. C.
 McNally, Andrew
 McNulta, John T.

McVeagh, F.
 McVicker, James H.
 Medill, Joseph
 Michaelis, R.
 Moran, Thomas A.
 Morris, Edward N.
 Moses, Adolph
 Munger, A. A.
 Nelson, Murray
 Nettlehorst, L.
 Newberry, Walter C.
 Newell, John
 Nickerson, S. M.
 Nixon, Wm. Penn
 Nordingent, F. V.
 O'Neal, John
 Palmer, Potter
 Parmelee, Frank
 Patterson, R. W.
 Pearce, J. Irving
 Peck, Ferd W.
 Phelps, E. M.
 Pike, Eugene S.
 Porter, H. H.
 Potter, O. W.
 Prendergast, Richard
 Prentice, J. H.
 Pullman, George M.
 Purington, D. V.
 Quan, W. J.
 Raster, Herman
 Rawleigh, J. T.
 Revell, Alexander H.
 Reynolds, J. P.
 Riddle, Francis A.
 Roche, John A.
 Roesing, B.
 Rumsey, J. P.
 Russell, Martin J.
 Ryerson, M., Jr.
 Sadler, J. H.
 Scammon, J. Y.
 Schneider, George
 Schoenhofen, P.
 Schwab, Chas. H.
 Schwartz, Charles
 Scott, Jas. W.
 Scott, Robert
 Seaverns, Geo. A.
 Seeberger, Anthony F.
 Seipp, W. C.
 Senne, H. C.
 Sexton, J. A.
 Sheppard, Henry M.
 Sherman, John B.
 Shorey, Daniel A.
 Shufeldt, H. H.
 Smith, Byron L.
 Smith, John C.
 Smith, R. J.
 Spaulding, Jesse
 Sprague, A. A.
 Stensland, Paul
 Stewart, Graeme
 Stockton, J.
 Stone, R.
 Stone, Henry B.
 Storey, A. C.
 Strong, W. R.
 Studebaker, C.
 Sturges, George
 Sullivan, W. K.

Svanoe, Peter
 Swift, G. F.
 Taylor, Abner
 Thompson, A. M.
 Thompson, William
 Tichnor, G. H.
 Toby, E. P.
 Tree, Lambert
 Tuley, Judge Murray F.
 Turney, V. C.
 Tuthill, Richard S.

Vierling, Robert
 Wahl, Lewis
 Walker, Charles
 Wallis, W. H.
 Walsh, James
 Walsh, John R.
 Washburne, Hempstead
 Waterman, A. M.
 Wentworth, M. J.
 Wetherell, O. D.
 Wheeler, George H.

Wheeler, Hiram
 Wheeler, Harris A.
 Wheeler, Lloyd G.
 Whiting, W. C.
 Williams, Norman
 Williamson, G. H.
 Wineman, Max
 Winston, Fred S.
 Wright, A. M.
 Yerkes, Charles T.

With the announcement of this committee enthusiasm for the undertaking increased day by day. Within three days after the committee had been appointed there assembled August 1, 1889, in the Council chamber one of the most representative bodies of citizens ever got together. Mayor Cregier was elected chairman and Thomas O'Neill recording secretary. The Mayor read communications from all parts of the West declaring preference for Chicago as the site for the Fair.

Resolutions were presented by Hon. Thos. B. Bryan, who supported them in a brief address. Mr. Bryan's enthusiasm seemed to be contagious, for the grand undertaking thrived from that moment. To him, perhaps, more than to any one else is the credit of the magnitude of the Exposition due. When other gentlemen lagged in their efforts he spurred them on; when a paltry million or two was suggested as a plethoric purse for carrying out the plans, he it was who, with his keen perception and ripe experience, foresaw the possibilities of an Exposition since realized, and advocated that sextuple such a sum should be raised. No pent up Utica restricted his ideas of an Exposition in keeping with the grandeur of the civilized world, particularly of America and Chicago. Some wise business men and able financiers thought then that his ideas were Utopian, but the culmination has borne him out as correct. The Bryan resolutions were the first official announcement of the Fair telegraphed over the country. The resolutions were as follows:

Resolved, That whereas the recent Centennial celebration in New York received—properly and with Chicago's hearty concurrence—the distinct recognition of Congress and of the chief officers of the government, imparting to it a national character, and a like recognition and substantial aid having been extended to the World's Fair at Philadelphia, (also with Chicago's hearty co-operation in and out of Congress), therefore, the West feels justified in insisting upon its turn now, and upon the location of the next great Fair in its commercial metropolis.

Among the reasons in support of that claim, the following are presented:

1. Chicago's Refrigerator, the lake, renders her summer climate more comfortable than that of any other great city for an exhibition at that season.
2. Her exceptional railroad and hotel accommodations insure the comfort and convenience of visitors, however numerous.
3. A limitless supply of water and the immense area of the city are adequate to all the demands of an exposition.
4. Chicago citizens have the money, and the public spirit to advance it freely in a good cause.
5. Whilst New York is nearer to England than to our Pacific coast, Chicago is so centrally located, with her thirty-eight railroads, pointing out in all directions, as to be accessible alike to exhibitors and visitors from every quarter of the globe, and especially to millions in the West, who would be debarred visiting the Fair if held at the seaboard.
6. Foreigners, and, indeed, many of our countrymen at the East, should have the opportunity presented them of seeing for themselves the growing cities of the West, that they may better realize that the discovery of Columbus embraced not merely a narrow strip of territory along one seaboard, but a mighty empire of almost limitless expanse and destiny.
7. What more eligible location can be desired than Chicago, from the fact alone that her marvelous growth, within the memory of the natives, from the frontier camp to the active city of over a million souls, with a corresponding advance in commercial, industrial and intellectual activities, can best typify the giant young nation whose discovery the projected Fair is to commemorate.
8. Men who helped build Chicago want the Fair, and having a just and well sustained claim, they intend to have it.

These resolutions were unanimously adopted and the meeting proceeded to the election of an Executive Committee, of which Mayor Cregier was made chairman. The committee was as follows:

S. W. Allerton, William Penn Nixon, Thomas B. Bryan, DeWitt C. Cregier, Frank Lawler, George M. Pullman, Lambert Tree, Ferd W. Peck, R. W. Patterson, Jr., Otto Young, Andrew McNally, E. Walker, W. J. Onahan, Victor F. Lawson, John B. Carson, F. H. Head, Joseph W. Fifer, E. T. Jeffrey, J. C. McAdams, E. F. Cullerton, Abner Taylor, Charles B. Farwell, J. Irving Pearce, Charles H. Schwab, H. N. Higinbotham, R. A. Keyes, R. A. Waller, L. D. Thomas, Jesse Spaulding, F. S. Winston, S. S. Gregory, George M. Bogue, R. Prendergast, E. St. John, Solomon Thatcher, Jr., George E. Adams, Arthur Dixon, John McGillen, E. F. Cragin, William E. Mason, Charles L. Hutchinson, W. C. Seipp, Lyman J. Gage, Robert Lindblom, John R. Walsh, J. W. Scott, George R. Davis, John O'Neill, W. D. Kerfoot, M. M. Kirkman, S. M. Cullom, Joseph Medill.

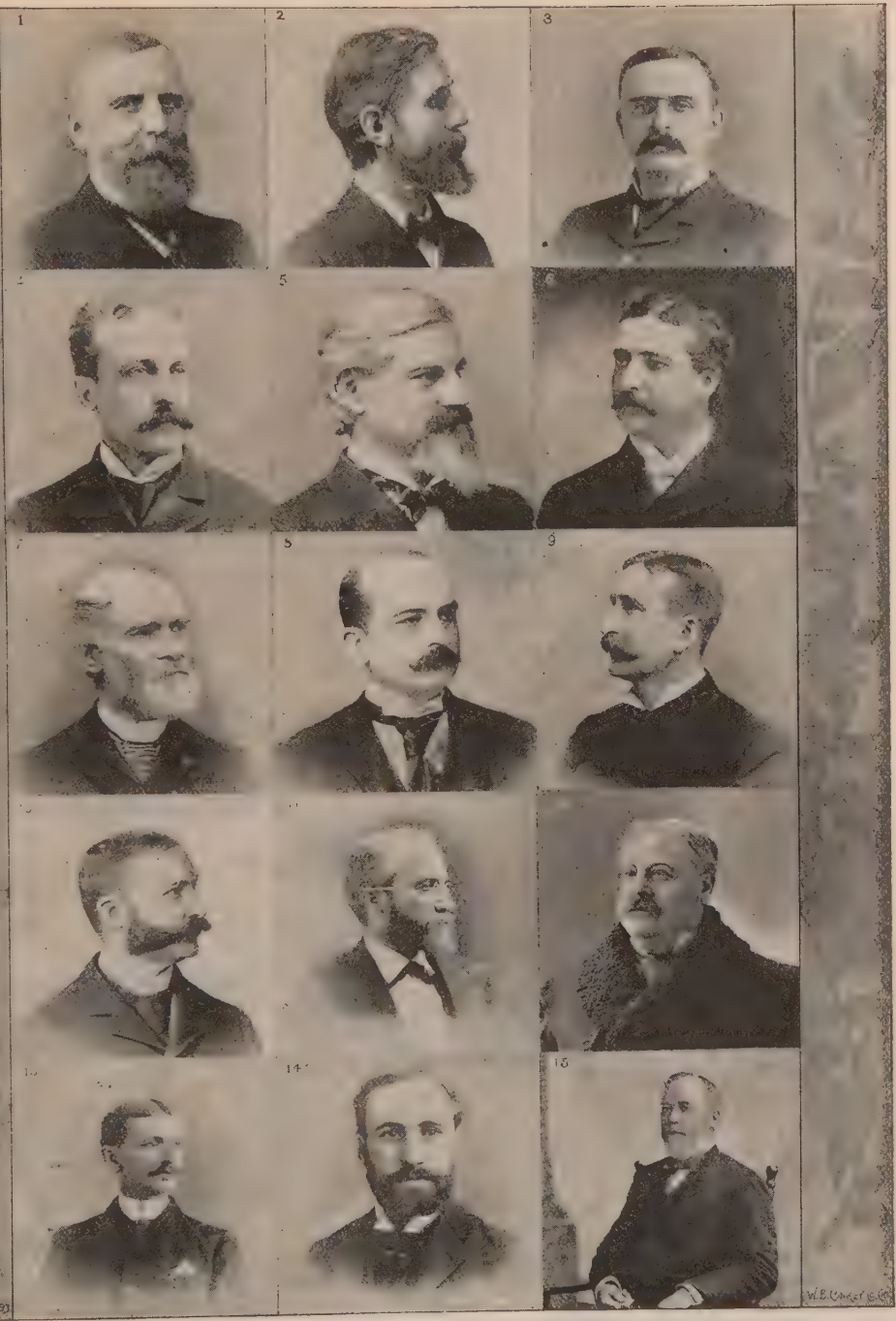
A sub-committee of the Executive Committee, consisting of William Penn Nixon, Chairman; E. F. Cragin, Secretary; E. T. Jeffrey, Robert Lindblom, General J. B. Carson, Andrew McNally, Thomas B. Bryan, W. J. Onahan and Charles H. Schwab, was appointed to name the sub-committees necessary to do the preliminary work. This committee met on Saturday, August 3, when it was decided that ten sub-committees would be needed to attend to the work. They were on Finance; on Preliminary Expenses; on Congressional Action; on National Cooperation; on Press; on Addresses and Local Agitation; on Addresses, Information and National Agitation; on Railroads and Transportation; on Hotels and Accommodations. Lyman J. Gage was made chairman of the Committee of Finance, with Charles L. Hutchinson, James W. Scott, Jesse Spaulding, J. Irving Pearce, W. C. Seipp and John B. Carson as the members.

Chairman Gage in looking about for a suitable man to take general charge of the two hundred committees or more that were created to solicit subscriptions from the various trades and branches of business, appointed D. H. Lamberson Superintendent of the Stock Subscriptions, and he was requested to call upon the Finance Committee for such assistance as he might require in the discharge of his duties.

The Finance Committee was thus organized with authority to collect a fund which should be sufficient to cover all expenses and increase the fund whenever necessary, in order that the right of a corporation under the laws of the State might be acquired, and to assume the title, "The World's Exposition of 1892" (subsequently changed by the incorporated title, "The World's Columbian Exposition"). A guarantee fund was subscribed and the Finance Committee organized as a corporation with full power to act.

On September 19, 1889, at a meeting of the chairmen of the sub-committees reports were submitted which showed as subscribed and pledged the sum of \$2,541,810. Early in October a special Sub-Finance Committee was appointed with Mr. Otto Young as chairman thereof, to specially push, in connection with the bureau presided over by Mr. Lamberson, the work of subscriptions. Early in April, 1890, when by the joint efforts of all parties concerned, the subscriptions to the capital stock had realized the magnificent sum of \$5,000,000. Mr. Lyman J. Gage, Chairman of the Finance Committee, wrote to Superintendent Lamberson, expressing his satisfaction with the work Mr. Lamberson had performed in connection therewith.

The committee was materially assisted by numerous committees among every class of citizens, who formed for the purpose of raising funds for the Exposition. Merchants, capitalists, mechanics and workingmen willingly gave time and money to aid in the work all doing their share to promote the claim of Chicago as the site of the Exposition, a claim which soon became known to the world. Offices were rented in the building of the Adams Express Company, and the Committee on Organization went to work with energy. At a meeting held August 9, 1889, Attorneys Burnham & Gookin submitted a detailed plan for a "World's Fair" to be held in Chicago on the Lake Front. Thomas B. Bryan, Chairman of the Agitation Committee, called attention to the



DIRECTORS WORLD'S COLUMBIAN EXPOSITION.

- | | | |
|-----------------------|---------------------------|--------------------------|
| 1. LYMAN J. GAGE. | 2. HARLOW N. HIGINBOTHAM. | 3. FREDERICK S. WINSTON. |
| 4. FERDINAND W. PECK. | 5. GEORGE R. DAVIS. | 6. CHARLES H. WACKER. |
| 7. THOMAS B. BRYAN. | 8. EDWARD B. BUTLER. | 9. JOHN J. P. ODELL. |
| 10. WILLIAM T. BAKER. | 11. GEORGE SCHNEIDER. | 12. CHARLES HENROTIN. |
| 13. ROBERT A. WALLER. | 14. ALEXANDER H. REVELL. | 15. EDWIN WALKER. |



DIRECTORS WORLD'S COLUMBIAN EXPOSITION.

1. ISAAC N. CAMP.
6. ELBRIDGE G. KEITH.
7. WM. D. KERFOOT.
12. WASHINGTON PORTER.
13. EDWARD P. RIPLEY.

2. WM. J. CHALMERS.
5. ARTHUR DIXON.
8. WM. P. KETCHAM.
11. ADOLPH NATHAN.
14. A. M. ROTHSCHILDS.

3. R. C. CLOWRY.
4. C. H. CHAPPELL.
9. MILTON W. KIRK.
10. EDWARD F. LAWRENCE.
15. CHARLES H. SCHWAB.

fact that this plan was premature, and it was laid aside. The time had not yet come to take up the question of location, and while Mr. Bryan did not give utterance to his ideas of a site then, it is presumed from later action on his part that he *knew* that the Lake Front was not adequate for the purposes of such an Exposition as he felt sure would follow.

On August 13th United States Senator Cullom organized a committee to promote agitation among the States favoring the location of the Exposition in Chicago with a view to united action. Letters were distributed by this committee among the merchants of the United States, to be sent to their customers in foreign lands, and in this way interest was created all over the world.

About the same time application for a charter as a corporation was sent to the capital of the State. This application stated that the name of the proposed corporation was "The World's Exposition of 1892," and its object "the holding of an International Exposition, or World's Fair, in the city of Chicago and State of Illinois, to commemorate on its four hundredth anniversary the discovery of America." The capital stock was \$5,000,000, as a guarantee fund, the amount of each share \$10, and the number of shares 500,000, the location of the principal office at Chicago, Cook county, Illinois, and the duration of the corporation ninety-nine years. This application was signed by De Witt C. Cregier, Ferdinand W. Peck, George Schneider, Anthony F. Seeberger, William C. Seipp, John R. Walsh and E. Nelson Blake. A license was granted them to open subscription books, which was dated August 14, 1889. This stock was issued at \$10 per share, 2 per cent. to be paid on delivery of the certificates, 18 per cent. as soon as the Fair was secured to the city, and the balance of 80 per cent. to be collected in four equal parts, each payable in six months. Agents were sent to solicit subscriptions in such States as were favorable to Chicago, and thus many stockholders were obtained in other parts of the country.

On August 22d Mayor Cregier mailed a letter to Governor Joseph Fifer, in which he called the executive's attention to the enthusiasm in the city and State in favor of holding the "World's Fair" in Chicago, and the importance of enlisting all the forces and influences of the State in the furtherance of the undertaking. The main purpose of the letter was to point out the importance and urge the necessity for calling together the Legislature of Illinois in special session in order that needed legislation might be had on the subject. The city of Chicago was prohibited from using the municipal credit, or employing any of its resources, except for strictly corporate purposes; hence, no municipal aid could be given to the undertaking, no matter how evident its advantages or how important its influences to the commercial welfare and local prosperity of the city. It was also pointed out that Congress would be called on to determine the location of the Exposition, and that the great State of Illinois should not let pass the opportunity to show its official interest and give its powerful aid to the project of holding the Exposition within its own borders.

Chicagians, formerly residents of other states, aided the cause by forming organizations bearing the names respectively of their native states. Thus the "Sons of New York," the "California Pioneers," "The North Pacific Association," "The Ohio Society of Chicago," "The Sons of Connecticut," "The Sons of Delaware," "The Sons of Louisiana," "The Sons of Indiana," "The Sons of Massachusetts," "The Sons of Pennsylvania," "The Sons of Rhode Island," etc., were formed into associations. Representatives of all these societies formed a central organization and State association, the purpose of which was to combine and direct the efforts of all with the single idea of obtaining the Exposition for Chicago, many congressmen declared enthusiastically for Chicago. One hundred and sixty-two of these gentlemen favored Chicago and so expressed themselves in public print.

By August 30th one-half of the guarantee fund, \$2,500,000, was subscribed and efforts were then redoubled until the Finance Committee was able to announce early in September, not two months after the idea had taken shape, that the full amount of \$5,000,000 had been subscribed.

August 16th a request was published in the local newspapers asking all women who wished to help Chicago attain its object to attend a meeting at the office of Dr. Fanny Dickinson, at No. 70 Lake street. A number of prominent ladies met and formed an organization called the "Queen Isabella Association." Further action was taken at a meeting October 25th, at Central Music Hall, at which it was resolved that Chicago must obtain the World's Fair. From this time on all classes of citizens acted throughout as if the prize were already within her grasp. Mr. E. T. Jeffrey was sent as a representative to Paris to collect material from the Paris Exhibition. On his return he published a detailed account of the Paris Exhibition, its organization, and a history of World's Fairs held in the past. The ambition was thus inspired to hold an Exposition that would surpass the one held in Paris.

About this time there was much competition among several cities of the United States for the prize which Congress would bestow in naming the location of the Exposition. New York was the first outside city to take definite steps to capture the much coveted prize. July 17, 1889, the mayor of that city issued invitations to five hundred prominent citizens, requesting their attendance at a meeting to determine the popular sentiment of that city as to the advisability of holding an Exposition to commemorate the four hundredth anniversary of the discovery of America by Columbus, and the availability of New York as a proper site of such an Exposition. The New York Chamber of Commerce took up the matter in a spirit which seemed to bode ill for the prospects of Chicago. The press of New York ridiculed the idea that such an Exposition could be held any where else, and least of all in a city a thousand miles inland. For a time the candidacy of St. Louis was pushed with considerable energy. Upon the invitation of the mayor a large number of business and professional men assembled August 11, 1889, and unanimously decided to compete for the prize, and this committee performed its work faithfully up to the day Congress rendered its decision. Washington was also a dangerous rival of Chicago. On September 30th, an open letter appeared in the daily press of that city in which the writer openly declared that Washington would be able to take the prize from Chicago with ease. It was expected that in the event of a contest between the other cities all would agree upon the capital as a compromise. St. Paul entered the fight October 1, 1889, the Board of Trade assuming charge of the city's interests, while her sister city, Minneapolis, pursued a similar course. Meantime numerous bills relative to the Exposition had been introduced in the House of Representatives of Congress. On December 19, 1889, Senator Cullom of Illinois introduced a bill entitled "An Act to provide for the holding of a World's Exposition of the arts and industries in commemoration of the four hundredth anniversary of the discovery of America." The bill provided that thirty days after its adoption the President should appoint exposition commissioners nominated by the governors of the different States and Territories; that the governor of the State chosen as the site of the Exposition, should, with the assistance of the mayor of the city, nominate one hundred commissioners from among the subscribers to the stock of the Exposition company, to be formed for the purpose of promoting the Exposition project, upon the express condition that the State raise a reserve fund of \$5,000,000 in cash or equivalent bonds; that the President should also appoint eight commissioners-at-large as representatives of the Federal government, and one from the District of Columbia; that the Commission so formed should be officially entitled "The United States Columbian Commission," and that the body should meet in the capital city on call of the Secretary of State, and receive subscriptions to the reserve fund to the amount of fifteen million dollars, each share to be limited to \$10. It was further provided that so soon as the bill should have received the executive sanction, the President should make proclamation of the location selected for holding the Exposition, and inviting the nations of the world to participate. A similar bill was brought in the House of Representatives.



GROUP DIRECTORS WORLD'S COLUMBIAN EXPOSITION.

- | | |
|------------------------|----------------------|
| 1. VICTOR LAWSON. | 2. ANDREW McNALLY. |
| 3. OTTO YOUNG. | 4. C. L. HUTCHINSON. |
| | 5. J. W. SCOTT. |
| 7. G. H. WHEELER. | 6. CHAS. T. YERKES. |
| 10. C. H. G. BILLINGS. | 8. JOHN C. WELLING. |
| | 9. MARK L. CRAWFORD. |
| | 11. J. W. ELLSWORTH. |

On the 21st of December Senator Vest offered an amendment to the Senate bill, directing that the Exposition be held in the city of St. Louis. At this stage of proceedings the entire subject was referred to an appropriate committee, and pending the final action of Congress determining the site, the rival cities occupied themselves in pressing their claims upon the senators and members of the House. During the month of January, 1890, the Senate committee on the Exposition heard arguments from delegates representing the contestants. At the first meeting of the committee were present: Senators Hiscock, Chairman; Sherman, Hawley, Wilson, of Iowa; Stanford, Eustis, Farwell, Kenna and Gray. It was decided to hear the advocates of Chicago on January 9th; of Washington City on the 10th; of New York on the 11th; and to require counter arguments to be submitted in writing only.

Governor Francis, of Missouri, opened the discussion in favor of St. Louis, and was followed by Hon. Charles H. Jones, of the *St. Louis Republic*, in an eloquent address which forcibly presented the advantages offered by that city. Ex-Governor Stannard also spoke in the same behalf. At the close of the evening the committee resolved to pass Washington for the present, and to devote an entire session to an audience of the delegations from Chicago and New York. Meanwhile, contrary to all expectation, the House Committee on Foreign Affairs decided to proceed without delay to consideration of the several bills concerning the Exposition. This action was regarded as favorable to the hopes of Chicago, and the advocates of other locations united in a strenuous effort to overcome this advantage. Mr. Flower, a representative, now Governor of New York, solicited the Speaker of the House to call together the Committee on Rules in order that a special committee might be appointed to take charge of the disputed subject; but his efforts at this time were futile.

On the 10th of January New York appeared on the scene with a formidable array of talent and influence, gathered from every class and profession, party and sect of her population. Headed by Mayor Grant came a long procession of names famous in the field and on the forum, in finance and in commerce. William C. Whitney, arm-in-arm with Ex-Senator Warner Miller, Burke Cochran and Elliott F. Shephard, Huntington and Inman, all fired with the common purpose of achieving honor for their great metropolis. On the same day the entire delegation from Chicago arrived in Washington, a goodly representation, led by Mayor Cregier and Senator Farwell; and Greek met Greek before the Senate committee on the morning of January 11th, the citizens of Washington having urged the fitness of the National Capital on the preceding day. The discussion was opened by Chauncey M. Depew, and his cause was pleaded with all those arts of oratory for which he is justly famous. Winning the assent of all auditors to his delarations that for the glory of the country this Exposition must be made to excel any ever attempted, Mr. Depew passed easily to the point in controversy. "As," he said "the proper location for a World's Fair in France was Paris, in Italy, Rome, London in England, Berlin in Germany, so the only site to which the United States could appropriately invite a Congress of the Nations was the American metropolis, the center of trade and capital, and the gateway of commerce." The speaker also dwelt upon the immense sum of money that would be requisite to guarantee the success of so great an enterprise, and insisted that New York alone possessed the wealth to furnish it. "Washington," said he "has the finest thoroughfares and most magnificent public buildings in the world; St. Louis the privilege of age and an unrivaled situation in the Valley of the Mississippi; Chicago could boast a development not equaled in the pages of ancient or modern history; but New York remained supreme and unquestioned the representative city of America." Appeals of a like nature were felicitously made by Messrs. Cochran and Miller.

Present on behalf of Chicago in addition to the gentlemen already named, were George R. Davis, Thomas B. Bryan, Adlai E. Stevenson, E. F. Cragin, Walter C. Newberry, John C. Black, E. T. Jeffrey, Frederick S. Winston and

others of like character and standing. Upon Mayor Cregier devolved the duty of opening the case for Chicago, and it was impressively and vigorously discharged. "We are here," he said "as citizens of our common country to represent a great city of the West. Its inhabitants are impressed with the opinion that the Exposition projected in honor of that intrepid voyager, Christopher Columbus, should be held in that section. I represent to a certain extent the people of Chicago, who, while ardently desiring that the World's Fair should be held in their city, share the wish and determination of other communities, and of all true American citizens, that, wherever the wisdom of Congress shall locate the Exposition, nothing shall be omitted to make the occasion worthy of the strength, the wealth, the culture, and the patriotism of this great government. In any case Chicago will contribute her full share that this country may appear before the nations in a manner to sustain and increase her renown. I am here to reciprocate the expressions of genuine brotherhood which it has been our pleasure to hear this morning. There is no rivalry but that of friendship between New York, the capital of America, and Chicago, the metropolis of the great West. In New York my eyes first opened upon the light of the world. It is the brilliant star of this continent, the flower of our civilization. Ever since we became a people New York has been the gate through which we sought communication with the outside world. But now there exists a new country on the other side of the Alleghanies, where powerful commonwealths have arisen, where population has multiplied, where the ground gives forth its increase a hundred-fold; and of that bountiful domain, Chicago is the Queen." His Honor proceeded by statistics and illustration to demonstrate how capable Chicago was to meet every requirement to be imposed upon the site of the Exposition, and closed amid the plaudits of friends and opponents alike. Hon. Thomas B. Bryan then offered a most practical and cogent argument from Chicago's point of view, and was succeeded by Mr. E. T. Jeffrey, who was also happy and effective in his line of remark. Here, for the present, the case before the Senate tribunal rested.

On January 16th the Committee on Rules reported to the House of Representatives a resolution requiring the speaker to appoint a committee of thirteen, to which should be referred all bills and resolutions concerning the Exposition, and which should report to the House a plan for selecting a site. Mr. Cannon, of Illinois, moved that the choice of location be lodged with the Committee on Foreign Affairs, and that the committee be instructed to first determine whether the Exposition should be held east or west of the Alleghany mountains before agreeing upon any city as the site. Mr. Hite, of Illinois, supported this motion. He said the Committee on Foreign Affairs, of which he was chairman, ought not to be slighted in the manner proposed by the Committee on Rules; that it already had charge of the bills referred to and had given the subject careful consideration. Other members participated in the debate, but no conclusion was arrived at. On the following day, January 17th, the House, by a majority of five votes, adopted a resolution authorizing the speaker to constitute a committee of nine "to have charge of all bills in relation to a celebration of the four hundredth anniversary of the discovery of America." The following were appointed: Messrs. Candler, of Massachusetts, Chairman; Hite and Springer, of Illinois; Belden and Flower, of New York; Frank and Hatch, of Missouri; Bowden, of Virginia, and Wilson, of West Virginia. This committee held its first session on January 21st, and after a spirited discussion, on motion of Mr. Frank, a subcommittee was appointed, consisting of Messrs. Candler, Hite and Flower to report on the following Thursday on the question of site. The committee also decided not to hear any argument concerning the location of the Exposition.

With little delay the preliminary skirmishes in committee were concluded, and the battle royal began with Mr. Candler's call for the order of the day, on a bright morning when the floor and galleries were crowded. To follow the debate would consume more space than can be allotted to this branch of the record. But it is necessary to recall that there was a firm, though ineffectual opposition,

led by Mr. Mills, of Texas, to the project of holding an Exposition. However, on the 23d day of February, Mr. Candler concluded the discussion, and an agreement had been reached that the vote should be taken on the ensuing day. The House was packed to suffocation with the eager champions for the competing cities, and the passages to the halls were blocked with persons anxious for early news of the result of the long struggle. The question being on filling the blank in the bill with the name of the city in which the Exposition should be held, the House had agreed that a majority of all the votes cast would be required to determine the victor.

On the first roll call (Mr. Candler not voting), the number of votes was announced as 305, making 153 necessary to a choice. Of these Chicago secured 115; New York, 70; St. Louis, 61; Washington, 58; Cumberland Gap, 1. No choice, and it was evident that the situation would narrow down to a trial of strength between Chicago and New York. The excitement grew intense as the ballots proceeded as follows:

Second—Chicago, 121; New York, 83; St. Louis, 59; Washington, 46. Total, 309. Necessary to a choice, 155.

Third—Chicago, 127; New York, 92; St. Louis, 53; Washington, 34. Total, 306. Necessary to a choice, 154.

Fourth—Chicago, 134; New York, 95; St. Louis, 48; Washington, 29. Total, 306. Necessary to a choice, 154.

Fifth—Chicago, 140; New York, 110; St. Louis, 38; Washington, 4. Total, 312. Necessary to a choice, 157.

At this stage there was some anxiety among the Chicago members as to the result of the next roll call; for New York on the last had gained 15 votes, while her own forces had been increased by six. These fears were groundless, however, as the sixth ballot carried their total up 149, while New York only received 116. The managers for the latter city now sought to gain time to strengthen their lines, and moved an adjournment. The answer was a chorus of derisive cheers from the Westerners, who now had victory in open sight. The motion was defeated, yeas, 138; nays, 174, a test which plainly indicated the coming event. Nor did the New Yorkers interpose any further attempt at delay, and the clerk proceeded for the seventh time to call the roll, and still no election, though Mr. Reyburn, of Pennsylvania, left New York to swell the Chicago column, and she lacked now only two votes to consummate the triumph. Then amid breathless attention the last vote was taken.

Eighth—Chicago, 157; New York, 107; St. Louis, 25; Washington, 18. Total, 307. Necessary to a choice, 154.

The long agony was over, and the crown of selection had fallen upon the brow of Chicago.

The week succeeding the action of Congress fixing the location of the World's Fair was one of universal rejoicing in Chicago, upon which the eyes of the whole world seemed suddenly turned. Congratulations poured in from all directions. Even St. Louis and New York joined cordially the ranks of Chicago's well-wishers. The newspapers of these two cities found ready explanations of the result. The *Globe-Democrat* declared that bad management had ruined the chances of St. Louis, while the *Herald* placed the blame for New York's discomfiture on the shoulders of Senator Platt, and assured him that it would find an opportunity to "get even." The reception given the Chicago delegates on their return from Washington amply repaid them for the wear and tear of the contest. They were met at South Chicago by a special train carrying a load of welcoming citizens, headed by the mayor and aldermen, and escorted to the city in triumph. At the depot the delegation and their escort were met by a multitude of cheering citizens, who joined in the procession that wormed through the crowded streets past the newspaper offices to the Council Chamber in the City Hall, where the delegates were to receive official public recognition of their services and their success. The hall was crowded to its doors. The welcome address delivered by

James W. Scott, who presided, was followed by such loud and persistent cries for "Cregier," that the mayor arose and briefly recounted the difficulties which the delegates had met and overcome. Senator Farwell, Thomas B. Bryan and others spoke of what the citizens of Chicago were undertaking in accepting the responsibility so valiantly striven for. A discussion followed, which resulted in the appointment of Messrs. Gage, Young, Walker and Bryan as members of a committee charged with the duty of protecting Chicago's interests before the special committee in charge of the World's Fair bill.

On March 6th this committee was granted a hearing, Mr. Candler, chairman of the special committee, presiding. Mr. Gage and his colleagues were able to convince the committee that the \$5,250,000 already subscribed by the people of Chicago, was the equivalent of cash, and the amount could be readily doubled if the exigencies of the case were found to require it. And having submitted an amendment to the bill in accordance with their instructions, the committee returned to Chicago.

March 19th Mr. Candler, on behalf of the special committee, read to the House a report, of which the substance is given here:

"By order of Congress the city of Chicago has been chosen for the location of the World's Fair, and your committee has accordingly inserted in the body of the bill the name of that city. The bill as presented differs in many essential particulars from that first reported and referred back to the committee. Two commissioners are assigned to the Territories instead of one, and eight additional representatives from the country at large are provided for. The national body so formed has been given the title of 'The World's Exposition Commission.' It is also provided that this commission shall accept the World's Fair buildings, if they conform to the objects and uses had in view. The original bill contained a provision that a minimum of five millions of dollars must be subscribed by persons in good financial standing, and at least 10 *per centum* of that amount be paid in, before the commission shall be authorized to perform any official function. The bill, as now worded, is even more cautiously worded, and demands that the Exposition company shall at any time, when necessary for the completion of the work, provide that sum. The committee has carefully examined the subscription list sent in by the Chicago Committee on Finance, and concludes that the subscriptions have been made by reliable and competent persons, and will be paid. * * * The committee therefore deems it a duty to recommend that the World's Fair be held in Chicago. * * * The sixth chapter does not appear in the original bill. It defines the duties and powers of the commission, and empowers it to assign space to exhibitors, to select the judges for the distribution of awards, and their assistants, and conduct all negotiations with representatives of foreign nations. The second chapter empowers the Exposition company of 1892 to change or modify the plans, with the consent of the commission, to fix the fee for entrance, and to formulate rules regarding the rights and interests of exhibitors and the public. The eighth chapter provides for the dedication of the buildings of the World's Columbian Exposition on April 30, 1892. In regard to the time of the celebration of the Fair there was a difference of opinion, each member of the committee reserving the right to cast his vote for such date as may seem advisable after mature deliberation. Chapter nine provides that the President shall have ample proof of the contribution of ten millions of dollars to the stock of the company before he shall issue his proclamation of invitation to foreign countries. Chapter sixteen limits the expenditure of government buildings at the World's Fair to \$400,000. Chapter seventeen restricts all expenditures of public moneys in this connection to \$1,500,000. Chapter eighteen appropriates money for maintenance of the National Commissioners while on duty, and for the payment of salaries and other administration expenses, subject to the approval of the Secretary of the Treasury."

Mr. Hatch, of Missouri, offered a minority report, calling for better evidence than had been furnished that a sufficiency of money had been subscribed by Chi-



COMMISSIONERS-AT-LARGE, WORLD'S COLUMBIAN COMMISSION.

1. A. G. BULLOCK,
Massachusetts.

2. GORTON W. ALLEN,
New York.

3. P. A. B. WIDENER,
Pennsylvania.

4. THOS. W. PALMER,
Michigan.

5. R. W. FURNAS,
Nebraska.

6. PATRICK WALSH,
Georgia.

7. HENRY EXALL,
Texas.

8. MARK L. McDONALD,
California.



ALTERNATES-AT-LARGE WORLD'S COLUMBIAN COMMISSION.

- | | | |
|--|--------------------------------------|--|
| | 1. HENRY INGALLS,
<i>Maine.</i> | 3. J. W. CHALFANT,
<i>Pennsylvania.</i> |
| 2. LOUIS FITZGERALD,
<i>New York.</i> | 5. H. G. PARKER,
<i>Missouri.</i> | 6. JNO. B. CASTLEMAN,
<i>Kentucky.</i> |
| 4. JAS. OLIVER,
<i>Indiana.</i> | 7. H. C. KING,
<i>Texas.</i> | 8. THOS. BURKE,
<i>Washington.</i> |

cago to creditably carry out a World's Fair; but the objection fell still-born. On motion of Mr. Candler an amendment was carried creating a Board of Lady Managers, and defining the functions of the same. Subsequently the date for opening the Exposition was fixed for May 1, 1893, by unanimous vote of the House; and on March 26, 1890, the bill, being placed upon its passage, was adopted by more than a two-thirds majority. It was on the same day sent to the Senate, and referred to the special committee, before which the initial struggle for preference between the cities had occurred. On April 10th the sub-committee took into consideration the proofs furnished by Chicago of having met all the conditions laid down as to the guarantee fund, and the committee divided equally on the question of approval, and the matter was referred to the full body without recommendation. On April 11th the whole committee ordered the Exposition bill favorably reported to the Senate with a few unimportant amendments. While before that body the bill provoked quite a lengthy debate, and was changed in some respects, among the alterations being the omission of the appropriation for a statue to Columbus. This was affected on a resolution offered by Senator Hoar, of Massachusetts. Senator Blair, of New Hampshire, attempted to engraft an amendment prohibiting the sale of ardent or malt liquors on the grounds of the Exposition, but his motion was laid on the table. The bill then passed the Senate. Senators Hawley and Farwell were appointed as conferees to bring about an agreement with the House of Representatives; and that body having adopted the measure as amended by the Senate, on the 28th of April the engrossed copy received the approval of President Harrison, and the triumph of Chicago was confirmed. In the devotion and energy of her sons lay the secret of that success. Also to the Representatives of the State of Illinois and of the city of Chicago in the Congress of the United States should be given full credit for their untiring zeal and astute management during the many stages of the conflict. Senator Farwell and Representatives Hite and Springer were particularly serviceable in the committees of their respective houses, and Mr. Candler, of Massachusetts, chairman of the Special Committee of the House, proved a faithful and efficient patron of the Exposition bill. To many others belongs acknowledgement for aid contributed both to Chicago's victory, and to the final ordainment of a World's Fair under satisfactory and practical provisions.

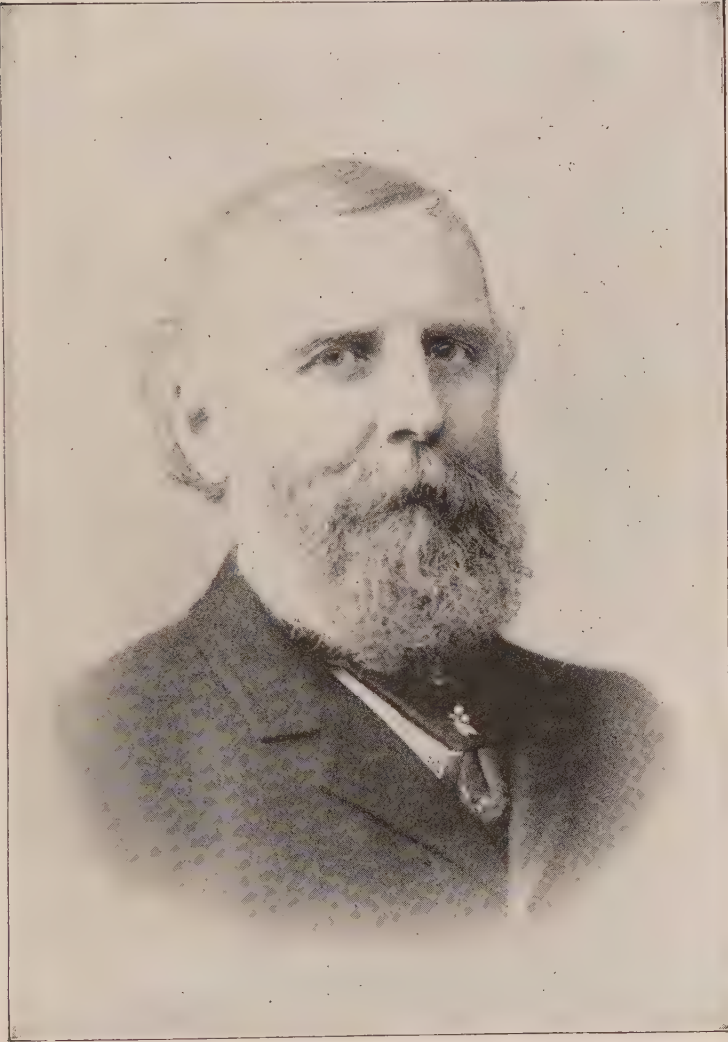
In the meantime Chicago did not rest idly upon the victory which the magnificent strategy of her representatives had won in the halls of legislation. The necessity for quick action was recognized even before that victory had received the full official confirmation of the government, and even though Congress had postponed the date for opening the Exposition to May 1, 1893, and so added a full twelve-month to the time for preparation. Already, on March 30th, a call had been issued to the shareholders in the World's Exposition Company for an assembly to take place April 4, 1890. Accordingly on the morning of that day, a full attendance at Battery "D" testified the sincerity of purpose with which Chicago had pledged her support to the monster enterprise; and the first general meeting of the subscribers was a notable event in the history of the World's Fair. The books of the Secretary showed the number of subscribers to be 29,374; the total amount of subscriptions pledged to date, \$5,467,350—distributed as follows;

AMOUNTS TAKEN.	NO. OF INDIVIDUALS.	AGGREGATE.
Fifty thousand dollars and upwards - - - - -	16	\$1,000,000.00
Ten to fifty thousand - - - - -	74	1,218,780.00
One to ten thousand - - - - -	858	1,631,750.00
One hundred to one thousand - - - - -	6,006	1,145,730.00
Ten to one hundred - - - - -	22,420	471,090.00

Pending the formal organization of the meeting a stormy discussion arose as to the manner of electing the directors. Hon. Carter Harrison and Mr. Washington Hesing had a numerous party of adherents to their contention that a majority of the persons voting, and not the number of shares voting, should determine the majority. This proposition was opposed by the supporters of the Exe-

cutive Committee which had prepared in advance a ticket of forty directors to be voted for. About noon the assemblage was called to order by Mayor Cregier, who, on motion of Mr. James W. Scott, was made permanent chairman. Mr. Scott was elected secretary on motion of Mr. Robert Lindblom. The chairman in an opening address, said that the proposed list of directors had been made out in order to facilitate proceedings, and not to forestall the wishes of the subscribers; that the candidates submitted were men of approved capacity and character, worthy to be organizers and managers of the great undertaking now in hand; however, that every share-holder was at liberty to vote for the person of his choice, whether his name was included on the submitted list or not. Mr. A. F. Hatch, attorney for the incorporators, explained the usual parliamentary method of procedure by such bodies. Mr. Carter Harrison offered a resolution, on which he spoke at length, providing for an increase in the number of Directors from forty to seventy-five, in order to afford adequate representation to the West Side, constituting more than one-half of Chicago's population. It was not necessary, he said, to exclude any of the persons already nominated, but thirty more could be added in order to appease the dissatisfaction of the smaller stockholders, and to equalize representation from all sections of the city. Mr. Hesing warmly indorsed this motion, and urged that the proposed manner of conducting the election was unjust and impolitic. The enterprise was one in which the honor and interests of the entire community were involved, and to support which every class of the population was to be taxed. It was not right that an insignificant number of subscribers, representing a capital of four millions of dollars, should dictate a plan of operation to twenty-eight thousand other stockholders. Chicago, continued the speaker, is a cosmopolitan city, made up of the people of all known nationalities, representing all pursuits and every station of life. In the conduct of the Exposition, which was a public enterprise and could only be successful by being popularized, all the varied interests at risk could not be properly protected by the forty gentlemen so carefully selected by one element of the meeting. He pointed out that in the ticket as formulated the South Side had twenty-six candidates, the West Side with its preponderance of population, ten only, while the North Side was granted four; that the four hundred thousand German citizens were recognized by the selection of but two of their number, the numerous Irishmen were given but one, while the Scandinavians, Bohemians, French, Poles, Italians, had been neglected entirely. And yet, he said, all those had struggled earnestly for the location of the Fair in Chicago, and had aided the fund by their contributions. Mr. Hesing insisted on this view of the case with frequent manifestations of approval from the audience, and he was supported by Messrs. Voeke, Mitchell and others. Mr. Harrison also indulged in a spirited protest against the programme as announced. Mr. Thomas B. Bryan restored temporary harmony to the meeting, which had grown tumultuous, by exclaiming, "Let us have peace;" and by observing that "only the enemies of Chicago could derive any satisfaction from strife between the stockholders." But he sustained the view that a majority of the stock must determine all contested questions. It was proper that the men who had furnished the great bulk of the money should have the controlling voice in its disbursements. No one had ever heard of the affairs of a corporation being conducted on any other theory. At the conclusion of Mr. Bryan's remarks, Mr. Hesing assented to a request by Mr. Harrison, and withdrew his appeal to the assembly. A vote was taken on the original proposition of Mr. Lawson that forty-five directors should be chosen. The total votes cast were 300,789 shares; of which 246,444 favored that plan of organization, and 64,385 favored an increase of representation.

Attempts were now made to postpone the election, and to submit one hundred and fifty names to the stockholders, from which the selection of forty should be made—but all were voted down. Nominations were declared in order, and were made to the number of one hundred and fifty. Among the names proposed were those of Charles Henrotin, Washington Hesing, Warren Leland, C.



LYMAN J. GAGE,
FIRST PRESIDENT WORLD'S COLUMBIAN EXPOSITION.

T. Yerkes; but they declined to be candidates. The roll call was ordered to proceed, and while the vote was being taken, various routine business was transacted, and a telegram was ordered to be sent to the United States Senate urging prompt action on the Exposition bill. At 4:15 P. M. the voting came to an end, but it was midnight before the tellers and judges completed the count, and announced the composition of the directory as subjoined:

Owen F. Aldis, Samuel W. Allerton, W. T. Baker, Thomas B. Bryan, B. B. Butler, Mark L. Crawford, W. H. Colvin, D. C. Cregier, George R. Davis, J. W. Ellsworth, J. V. Farwell, Jr., Stuyvesant Fish, L. J. Gage, H. N. Higinbotham, C. L. Hutchinson, E. T. Jeffrey, E. G. Keith, R. A. Keyes, M. M. Kirkman, H. H. Kohlsaat, E. L. Lawrence, T. J. Lefens, Andrew McNally, Joseph Medill, A. Nathan, Robert Nelson, J. J. P. Odel, Potter Palmer, J. C. Peasley, F. W. Peck, E. M. Phelps, E. S. Pike, M. A. Ryerson, Charles H. Schwab, A. F. Seeberger, W. E. Strong, C. H. Wacker, R. A. Waller, Edwin Walker, John R. Walsh, C. C. Wheeler, F. S. Winston, C. T. Yerkes, Otto Young, Cyrus McCormick.

April 10th Mr. Hatch, attorney for the incorporators, obtained from the Secretary of State a certificate of charter of the Exposition company, and this document was registered in the office of the recorder in Chicago. The paper, containing the names of twenty-eight thousand stockholders, was one of the most voluminous ever filed in that office, and the fee for registration amounted to \$195.00.

April 12th the first meeting of the Board of Directors was held at the Sherman House, and a temporary organization was affected by the election of Mr. Edward Walker as chairman. On the 20th steps were taken by the board to inaugurate efforts for increasing the capital stock to ten millions of dollars, a necessity which had already become manifest. By this time the intelligence was communicated from Washington that President Harrison had signed the Exposition bill as passed by both houses of Congress; and on April 28th the Provisional Committee, having completed the great preliminary work entrusted to their execution, held their last meeting, and prepared to give an account of their stewardship. Treasurer Onahan submitted his balance sheet, and Messrs. Cregier, R. A. Keyes and L. J. Gage were directed to report to the Directors of the Exposition and transfer to their body the papers and other property of the committee together with all moneys on hand; the directory to assume all outstanding indebtedness of the retiring authorities, and the latter to be relieved of all further obligation as to the two and a-half per cent: which had been raised on the original subscriptions. So terminated a chapter in the history of the Fair, which reflected credit on all who were concerned in it.

On April 30th the directors met and proceeded to the election of permanent officers. Mr. Lyman J. Gage was by acclamation chosen to be president.

[Lyman J. Gage, who was president of the World's Columbian Exposition in its formation period, has a national reputation as a banker and financier. Immediately on the organization of the company all eyes turned to Mr. Gage as the man of all others to create public confidence and to give guarantee of the good faith and strength of resolution with which the people of Chicago had pledged themselves to capitalize and maintain the Exposition. His name was a tower of strength in attracting financial aid to the scheme, and the results of his labors are notably apparent in the preliminary steps which made the Exposition possible. His will, energy, and indeed his presence, seemed to be everywhere in the early days of the enterprise, whether in enlisting the support of capitalists, in satisfying the skepticism of the timid, in overcoming the opposition of rival cities, in meeting the objections raised by Congress, in composing the local jealousies, in exhorting the State Legislature and City Council to a liberality worthy of the occasion, in procurement of suitable grounds for exhibition purposes, or in creating a broad, generous and comprehensive plan for the reception and entertainment of the nations. When he laid down the responsibilities of the office, it is no disparagement to his successors to say that during his administration the foundations of success were laid deep and broad, and that the Exposition owes an immeasurable debt to its first president. Born in 1836, Mr. Gage has had an opportunity to witness the various events and calamities of the nation, and he has been a keen observer. Having been a resident of Chicago since 1855, he is familiar with the financial growth and history of this far-famed city, at the same time he has been one of the recognized leaders in the profession of banking. Before he was elected president of the First National Bank, his present position, he served eleven years as cashier in the Merchants' Loan and Trust Company's bank.

This long experience, together with his natural talent, has eminently fitted him for the management of the second largest banking institution in the world. When Mr. Gage resigned his position as president of the World's Fair Directory, he was presented with a book designed especially for him. It is illuminated throughout in the style of the ancient prayer-books. It has fine hand-paintings of the Exposition buildings, and allegorical representations of the different industries. The motto opposite his portrait is:

"Honor and fame from no conditions rise;
Act well thy part, there all the honor lies."

The title page is announced as follows: "Testimonial and resolutions unanimously adopted by the Board of Directors of the World's Columbian Exposition on the retirement of its president, Lyman J. Gage."]

With like unanimity Messrs. Thomas B. Bryan and Potter Palmer were elected first and second vice-presidents respectively. President Gage accepted the presidency in appropriate language, pointing out the magnitude of the task before the board, pledging his every effort to the enterprise, and urging harmony and co-operation upon his colleagues. On motion of Mr. Schwab a committee, consisting of Messrs. Palmer, Medill and Strong, was ordered to report at the next meeting on the question of salaries and other details.

May 7, 1890, the work of organization was mapped out. The books of the temporary treasurer, W. J. Onahan, were reported to be correct, and a resolution of thanks was tendered him. Mr. Palmer's committee reported and its recommendations were sustained. A. F. Seeberger was chosen treasurer, and W. H. Ackerman, auditor. On motion of Mayor Cregier a call was authorized of \$1.80 upon each share of stock, payable on the 1st Monday in July. Mr. Bryan secured the adoption of a resolution providing for a general meeting of the stockholders on July 12, 1890, to consider the following proposals and recommendations of the directory.

1. To increase the capital stock to ten millions of dollars.
 2. To change the name of the company to the World's Columbian Exposition.
 3. To adopt by-laws and approve the intermediate action of the directors.
- After providing for a Committee on Ways and Means, to consist of thirteen members, and instructing the secretary to offer at the next meeting a design for the Corporate Seal, the standing committees were announced.

The Executive Committee was to be composed of the president, the two vice-presidents and the chairman of each committee.

At this juncture the advisability of securing the co-operation of the State of Illinois became apparent; in fact certain legislation was essential to the provision of a suitable site. On May 23d the directory adopted resolutions submitted by the Finance Committee as follows:

To request Governor Fifer to call a special session of the General Assembly of the State of Illinois previous to July, 1890, to decide the following questions:

1. To bring in a bill for the taking of a popular vote upon a proposition so to amend the Constitution of the State as to allow the City of Chicago to emit bonds to the amount of five millions of dollars, to be used for the purpose of the World's Fair.
2. To adopt a law authorizing the use for Exposition purposes of either of the public places under control of South, West or North Boards of Park Commissioners in Chicago, and empowering said Boards to issue bonds to cover the expense of beautifying said parks, respectively—this enactment to contain also such regulations as might be deemed necessary concerning the use of the Lake Front.
3. To take the necessary measures and grant the necessary means for a State exhibit at the Exposition.

June 9th, the city council, in response to an urgent appeal from Mayor Cregier, supplemented the above by the subjoined preamble and enactment:

WHEREAS. The City of Chicago has pledged herself, by her citizens, to the Congress of the United States to take care of the holding of an International Exposition; and whereas it is appropriate that the city (in its corporate capacity) should aid in this grand enterprise financially and otherwise, and insure its success; and whereas the city possesses now no fund applicable to the object in view, therefore,

Resolved, That the bonded debt of the city must be increased in order to provide the necessary aid for this project; and be it further.



COMMISSIONERS WORLD'S COLUMBIAN COMMISSION.

1. PATRICK H. LANNAN,
Utah.
6. CHARLES H. DEERE,
Illinois.
7. ADLAI T. EWING,
Chicago.
12. LYMAN B. GOFF,
Rhode Island.
13. GARDINER C. SIMS,
Rhode Island.

2. J. T. W. TILLER,
Arkansas.
5. ALBERT A. WILSON,
District Columbia.
8. THOS. E. GARVIN,
Indiana.
11. CHAS. D. McDUFFEE,
New Hampshire.
14. PHILLIP ALLEN, JR.,
Wisconsin.

3. J. H. CLENDENING,
Arkansas.
4. A. T. BRITTON,
District Columbia.
9. ELIJAH B. MARTINDALE,
Indiana.
10. WALTER AIKEN,
New Hampshire.
15. JOHN N. COBURN,
Wisconsin.



COMMISSIONERS WORLD'S COLUMBIAN COMMISSION.

- | | | |
|--|---|---|
| 1. FREDERICK G. BROMBERG,
<i>Alabama.</i> | 2. OSCAR R. HUNDLEY,
<i>Alabama.</i> | 3. MICHAEL H. DE YOUNG,
<i>California.</i> |
| 6. RICHARD TURNBULL,
<i>Florida.</i> | 5. C. F. A. BIELBY,
<i>Florida.</i> | 4. WM. FORSYTH,
<i>California.</i> |
| 7. GEORGE A. MANNING,
<i>Idaho.</i> | 8. JOHN E. STEARNS,
<i>Idaho.</i> | 9. JOSEPH EIBOECK,
<i>Iowa.</i> |
| 12. JAS. A. MCKENZIE,
<i>Arkansas.</i> | 11. JNO. BENNETT,
<i>Kentucky.</i> | 10. WM. F. KING,
<i>Florida.</i> |
| 13. DAVIDSON B. PENN.,
<i>Louisiana.</i> | 14. THOS. J. WOODWARD,
<i>Louisiana.</i> | 15. AUGUSTUS R. BIXBY,
<i>Maine.</i> |

Resolved, That this Council respectfully requests the Governor of the State of Illinois to convene an extra session of the Legislature, and to set forth in his message as the main object of such session an amendment to the constitution granting to the city of Chicago authority to increase the bonded debt by the sum of five millions of dollars for the purpose set forth above.

On the 10th of June a delegation of directors proceeded to Springfield under leadership of Vice-President Bryan, to confer with the governor, and received prompt and cordial assurance of his co-operation to the ends desired. Accordingly, on the 13th, that official gave out the proclamation and call. The document covered the ground suggested by the directors and the city council in their resolutions, and fixed Wednesday, July 23d, as the date of the special session.

The governor's proclamation was in exact accordance with the resolutions given above, and he gave the full weight of his official influence to the measures proposed; but the Legislature did not at once pass the enabling acts, requiring further information on many of the subjects involved, particularly as to the status of the Lake Front.

Up to the meeting of the stockholders held at Battery "D" in 1890, the entire structure rested on the charter from the State of Illinois, in which Hon. DeWitt C. Cregier, Messrs. Ferd. W. Peck, George Schneider, Anthony F. Seeberger, William C. Seipp, John R. Walsh and Nelson Blake were named as the incorporators. The enterprise then attracted recognition by the Federal Government.

On the 26th of May, 1890, President Harrison, in obedience to the Act of Congress, appointed members of the National Commission on nominations made by the Governors of the several States and Territories, and the commissioners-at-large authorized by law. On the 5th of June, Hon. James G. Blaine, Secretary of State, issued a circular letter, convening the first session of the Commission at the Grand Pacific Hotel in Chicago, on the 25th of the same month.

On the 26th of June, Commissioner A. T. Ewing of Illinois, took the seat reserved for the presiding officer in the parlor of the Grand Pacific Hotel and rapped for silence with a stroke of the gavel. Mr. Ewing said:

GENTLEMEN OF THE COMMISSION: I am directed by the Department of State to call this meeting to order, which I now do in the name of the United States. I bid you welcome to Chicago, and am sure that wisdom and unity of purpose will mark your deliberations.

A prayer for Divine blessing on the assembly was offered by Rev. John Barrows.

Hon. John T. Harris, of Virginia, was elected temporary chairman, and R. R. Pierce, temporary secretary.

On motion of Commissioner McKenzie, of Kentucky, amended by Mr. Waller, of Connecticut, a committee of twelve was ordered to be appointed by the chairman, to report the offices necessary to be filled to constitute a permanent organization. During a lull in the proceedings, but while the subject of an election of officers was under informal discussion, Mr. Thatcher, of New York, read a telegram from the Hon. C. M. Depew, in which that gentleman requested that "his name should not be used in connection with the presidency of the Commission, as he was about to undertake an extended trip to Europe, etc." Pending a report from the Committee on Permanent Organization, the meeting adjourned until the following day.

During the evening the commissioners were tendered a reception and banquet at the Palmer House by the Directory, the entertainment being under the management of a committee, consisting of Messrs. T. B. Paine, L. D. Thoman, C. F. Cregier, George H. Parker and H. Sheldon. During the festivities which ensued, Judge Thoman presided. On his right was seated Chief-Justice Fuller, of the Supreme Court of the United States; on his left, Bishop Fallows. Next to Judge Fuller, Hon. John T. Harris, of Virginia, sat, and in adjoining seats of honor were gathered Lyman J. Gage, Judge Gresham, Messrs. Cregier, Ewing, Bryan, Peck, and many other notabilities. The addresses delivered after the banquet were remarkable for the unanimity of sentiment which characterized them. Every

utterance bespoke the determination which pervaded all minds, to labor diligently and with singleness of purpose for the common cause.

When the commissioners re-assembled, pursuant to adjournment, on June 27th, Mr. McKenzie, from the Committee on Permanent Organization, submitted a partial report which was unanimously adopted, and which provided for the election of a president, five vice-presidents, and a secretary; the first vice-president to be of opposite politics to the president, and the other four to be equally divided in politics. Nominations being called for, the office of president was filled by the unanimous election of Hon. Thos. W. Palmer, of Michigan, who was escorted to the chair and accepted his high duties in the following language:

GENTLEMEN OF THE COMMISSION: I am profoundly grateful for the compliment that you have paid me; and yet, in accepting the compliment, I am infused with a feeling of trepidation as to what it involves. Men, as a rule, shrink from the trials of the unknown, and that general clause in the definition of the duties of the president, seems to me to involve much more than we would suppose at a first glance. It places a great deal upon the president; and it may take a great deal away from him. In either case, he proposes not to complain. I have heard it said that when the throes of birth were not severe in the delivery of a child, the child was liable to be of little worth thereafter. On that account I regard my election by acclamation as a poor augury for my future. If there had been a little more of a struggle, it might have given me a greater experience of the peril, of the hardship of my next few years. In regard to that distinguished man whose name has been proposed in connection with the presidency—that admirable Crichton of America, that man who is always first in finance, at the social board, on the rostrum, or in business life—I would say that if he could have been induced to accept the position, I believe it would have given us greater prestige abroad and at home. I telegraphed to him that it had been suggested to me that if he were willing to become a candidate, I would decline to have my name presented; but the circumstances were such that Mr. Depew felt that he could not give it the time, and, therefore, I became a willing sacrifice.

The Chair now awaits the pleasure of the Commission.

[Thomas Wetherill Palmer comes of a sturdy stock, his ancestors on both sides having been among the early settlers of the continent which Columbus opened up to civilization. His mother's people were Rhode Islanders, in direct descent from Roger Williams; and her father, a native of Massachusetts, and one of those who fought with Warren at Bunker Hill, was after the Revolution appointed by President Jefferson to a federal judgeship in the Territory of Michigan, and held court in the wilderness while yet Tecumseh was a living terror to the land. Thomas, the father of President Palmer, had birth in the State of Connecticut, but was a pioneer in the settlement of the Northwest, and the year 1809 found him already on the frontier line, conducting a lucrative trade with the Indians at the post of Detroit, where twenty-one years later, June 25, 1830, the subject of our sketch was born. The younger Palmer literally grew with the country, and by the time that his manhood approached Territories had become States, forests had given way to cities, society had taken root in the land of the savage, and the spire of the church and belfry of the school were rising from the bosom of the prairies. He enjoyed the benefit of an excellent scholastic education, was assiduous in his studies, passed through the course at St. Clair College, and took his degree of graduation at the University of Michigan. Some months were then passed in foreign travel, and while abroad he made a pedestrian tour of Spain and acquired such familiarity with the language and the people of the country as was afterward to serve a valuable purpose to his own government. Returning to this country Mr. Palmer entered upon mercantile pursuits, was for some time engaged in business in Wisconsin, and subsequently conducted large enterprises in Detroit, where he now resides. His success as a merchant was the result of diligence and probity which also secured the esteem of his fellow citizens. Later on in life Mr. Palmer became an active participant in politics, acquiring large influence, and filling many positions of trust with honor to himself and to the satisfaction to his constituents. He was a member of the Board of Estimates of the State of Michigan, and later served in the Legislature for several terms as a member of the Upper House. Bringing to each and every station an enlightened intelligence and strong sense of duty, he was now chosen as one of Michigan's representatives in the Senate of the United States, occupying this high position for the full term of six years. In 1887 Senator Palmer was chosen president of the Water-ways Convention, held in Sault Saint Marie under the auspices of the Duluth Chamber of Commerce, and in that relation rendered valuable assistance to the cause of inter-lake navigation. In 1889 he was appointed by President Harrison, minister plenipotentiary and envoy extraordinary to the court of Spain.]

Mr. Massey, of Delaware, offered the following resolution, which was unanimously adopted:

Resolved, That the Committee on Permanent Organization be instructed and directed to consider the matter of the several vice-presidents and other officers designated by their report just presented, and make recommendation to the Commission of suitable nominees for the same; and before determining upon their recommendation, that they shall sit for two hours to hear the individual views and preferences of such members of the Commission as may desire to address them in that behalf.



HON. THOMAS W. PALMER,
PRESIDENT WORLD'S COLUMBIAN COMMISSION.

On motion of Mr. Kerens, of Missouri, the Commission proceeded to the election of a permanent Secretary.

Mr. Skiff, of Colorado, presented the name of Mr. John T. Dickinson, of Texas, which was seconded by Mr. Rucker, of North Dakota.

Mr. Dickinson was unanimously elected secretary.

On taking his place at the secretary's desk, Mr. Dickinson made the following remarks:

GENTLEMEN OF THE WORLD'S COLUMBIAN COMMISSION: Permit me to express to you my sincere gratitude for the high compliment you have paid me, and through me the State of Texas, which I have the honor, in part, to represent in this Commission, by electing me as your secretary. I fully realize the magnitude of the enterprize which we are about to inaugurate, and if I did not conscientiously believe that I could successfully perform the duties of secretary of the World's Columbian Commission, with credit to myself and to my State, and ultimately, I trust, to the satisfaction of this Commission, I would not have been a candidate for the honor. Having had considerable practical experience as secretary and general manager of fairs and expositions, I shall enter upon the discharge of the duties of this important office, feeling always the responsibility of the position, and with the assurance of your confidence and support, I will endeavor to bring all the fidelity, intelligence, zeal and industry I may possess toward the satisfactory performance of the varied and exacting duties that belong, both directly and indirectly, to the office of the secretary of the World's Columbian Commission. Again thanking you for the honor conferred upon me, I will now proceed to enter upon the discharge of the duties of the office. [Applause.]

[John Thilman Dickinson was born in Houston, Texas, June 18, 1858, descended from a sturdy line of ancestors, who, on many a hard fought field, poured out their lives amid the fires of martyrdom. Scotch history is permeated with the name of Dickinson, and always in connection with deeds of valor and honor. Early an orphan, Col. Dickinson was educated liberally at home and abroad, and graduating in several of the Academic schools of the University of Virginia, in June, 1879, received the diploma of Bachelor-of-Law from that venerable institution. Returning to Texas he became one of the owners and the editor of the *Houston Telegraph*, and entered at once and actively upon public life. In January, 1881, while on a visit to Austin, the capital of the State, he was elected secretary of the House of Representatives of the Texas Legislature, and in May, 1882, was elected secretary of the Texas State Capitol Board for supervising the construction of the largest State House in the Union and probably the largest red granite building in the world. During this time he was also elected secretary of the State Penitentiary Board, and several other State boards, and filled these positions under three governors, Hon. O. M. Roberts, Hon. John Ireland, and Hon. L. S. Ross, and also served on the staff of Governor Ireland with the rank of colonel. In 1888 Col. Dickinson was elected general manager of the International Fair Association of San Antonio, and conducted the organization and preparation of the Texas-Mexican Exposition which was successfully held in that city in November of the same year. This was regarded by the people as the best arranged and most attractive exposition of the products and resources of Texas and Mexico that had ever been held in the State. He remained in San Antonio as secretary and general manager of this Exposition Association until he visited Chicago at the time this city entered the contest for the location of the World's Fair. His services were immediately engaged and he was sent to interview members of Congress in several States in behalf of Chicago; he met the Chicago committee in Washington in December, 1889, and remained with them until Chicago was victorious in the contest. When the bill had passed, creating the World's Columbian Exposition, and providing for two commissioners from each State, Colonel Dickinson was appointed by General L. S. Ross, Governor of Texas as the Democratic commissioner to represent that State.]

On motion of Mr. Widener the following resolution was adopted.

Resolved, That a committee of seven be appointed to communicate with the local directors of the World's Columbian Exposition of Chicago, and notify them that this Commission is now permanently organized and prepared to receive any communications they may have to submit.

The next day, June 28th, the organization was further perfected by election of the following vice-presidents, from first to fifth, in the order in which they are named: Thomas M. Waller, Connecticut; M. H. DeYoung, California; Davidson B. Penn, Louisiana; G. W. Allen, New York; Alex. B. Andrews, North Carolina. The next step taken was to appoint a committee, consisting of Commissioners Smalley, Kerens, Bromberg, Thatcher, Widener and Sewell, instructed by resolution to investigate and report upon the following lines of inquiry: Whether the World's Columbian Exposition had secured the legally prescribed amount of subscriptions to the capital stock; whether, in fact, the tenth part, or 10 per centum of such subscription had been paid in by the shareholders; and whether the corporation had instituted proper measures to obtain subscriptions

to an additional amount of five millions as contemplated by the Act of Congress.

After this the Commission met daily and were engaged in mapping out the details of a complete legislative and executive organization. During these sittings the following resolution was adopted:

Resolved, That this Commission is satisfied that the World's Columbian Exposition of Chicago has an actual, bona fide, and valid subscription to its capital stock which will secure the payment of at least five million dollars, of which not less than five hundred thousand dollars has been paid in, and that the further sum of five million dollars, making in all ten million dollars, will be provided by said corporation in ample time for its needful use during the prosecution of the work for the complete preparation of said Exposition.

On the 3d of July an adjournment was had to October 8, 1890, unless sooner called together by the president.

The second session of the Commission convened September 15, 1890, in answer to the call of President Palmer. Reports were received from the various committees appointed at the July session, and were ordered to be printed for future consideration.

In the discussion of a site for the Exposition, the Lake Front figured prominently as one of the projects, and for a while its acceptance seemed probable, but July 2, 1890, the Commission formally accepted Jackson Park and Midway Plaisance as the site, the Committee on Titles and Facilities of Transportation having given the matter careful attention. That committee reported that "so far as the title to Jackson Park and the Midway Plaisance (embracing 633 acres) is concerned, they believe it is vested in the World's Columbian Exposition, by the Act of the General Assembly of the State of Illinois passed at its recent session, and by ordinance of the South Park Commissioners, and is such a title as confers the right to use these parks as a site for the World's Columbian Exposition during the period required."

In October, 1890, the Committee on Grounds and Buildings appointed Mr. D. H. Burnham as chief of construction, and on December 8, 1890, the consulting architects, the consulting landscape architects and the consulting engineer formed a consulting board under the chairmanship of the chief of construction. Late in November, 1890, the consulting board, under its instructions, entered upon the duty of devising a general plan for the Exposition, taking as a basis for the study of the problem the classified list of exhibits which had been prepared by a committee charged with that duty. The list, together with such advice received directly from the committee, dictated the number and the size of the buildings which would be required to meet the intention of the Act of Congress. The larger part of the site to be dealt with was a swampy, sandy flat, liable at times to be submerged by the lake. Other parts were low ridges, which had originally been sand bars thrown up by the lake. Upon some of these ridges there were trees, most of them oaks, of stunted habit because of the sterile and water-soaked soil in which they had grown, and the extreme exposure to frigid winds from the lake, to which they had been subject to a late period every spring. The idea was that there should be a system of navigable water-ways, to be made by dredging-boats working inward from the lake through the lowest parts of the site, the earth lifted by the boats to be so deposited as to add to the area, and increase the elevation of the higher parts, which would thus become better adapted to pleasure-ground purposes, and to be used as the sites for the buildings of the Exposition.

The plot contemplated the following as leading features of design: That there should be a great architectural court with a body of water therein; that this court should serve as a suitably dignified and impressive entrance hall to the Exposition and that visitors arriving by train or by boat should all pass through it, that there should be a formal canal leading northward from this court to a series of broader waters of a lagoon character, by which nearly the entire site would be penetrated, so that the principal Exposition buildings would each have a water, as well as a land frontage, and would be approachable by



WILLIAM T. BAKER,
SECOND PRESIDENT OF THE WORLD'S COLUMBIAN EXPOSITION.

boats; that near the middle of this lagoon system there should be an island, about fifteen acres in area, in which there would be abounding clusters of the largest trees growing upon the site; that this island should be free from conspicuous buildings and that it should have a generally secluded, natural, sylvan aspect, the existing clusters of trees serving as centers for such broad and simple larger masses of foliage as it would be practicable to establish in a year's time by plantations of young trees and bushes. Because the water in the lagoons should be subject to considerable fluctuations, it was proposed that its shores should be occupied by a selection of such aquatic plants as would endure submergence and yet survive an occasional withdrawal of water from their roots.

Time pressing, the plot, with a brief written specification, was submitted to the corporation, and, after due consideration, on the 1st of December, 1890, was adopted as the plan of the Exposition. Shortly afterward this action was approved by the World's Columbian Commission, and an order given to proceed with the execution of the design. The plot presented no studies of buildings other than the outlines of the space to be occupied by those, ten in number, which had been contemplated in the instructions received by the Consulting Board from the Committee on Classifications. More than two hundred buildings of varying dimensions have since been introduced, and the process of adjustment by which sites were formed for these, without material departures from the primary motives of the general plan has required the constant exercise, upon the part of those charged with this duty, of much ingenuity and discretion. The next step was the selection of architects to design the buildings, and the committee authorized Mr. Burnham to select five architects outside of the city of Chicago to design the five principal buildings around the court. Later Mr. Burnham was authorized to appoint five architects from Chicago to design the remaining buildings which had been determined on. The committee determined, however, to select an architect for the Woman's Building by competition, to be confined strictly to women. By March 1, 1891, the chief of construction having apportioned the work among the architects, was enabled to form an estimate of the work to be done by his department. Roughly speaking, it consisted of reclaiming nearly seven hundred acres of ground, only a small portion of which was improved, the remainder being in a state of nature, and covered with water and wild-oak ridges, and in twenty months converting it from a sedgy waste by the borders of an inland sea, into a site suitable in substance and decoration for an exposition of the industries and the entertainment by the republic of representatives of all the nations of the world. On its stately terraces a dozen palaces were to be built—all of great extent and highest architectural importance—these to be supplemented by hundreds of other structures, some of which were to be almost the size of the Exposition buildings themselves; great canals, basins, lagoons, and islands were to be formed; extensive docks, bridges, and towers to be constructed. The standard of the entire work was to be kept up to a degree of excellence which should place it upon a level with the monuments of other ages. It meant, in short, that an organization must be quickly formed which should associate the ablest architects, landscape designers, painters, sculptors, and engineers of the country. By the summer, all of the ten buildings first designed were under contract. From that time on, the work of designing and of construction was carried forward most urgently by day and by night, and all arrangements of the construction department were completed and in readiness for the opening.

In October, 1892, the title of Director of Works was conferred on Mr. Burnham with enlarged duties and powers added to those already exercised by the chief of construction.

Early in the first session the Commission had decided to elect the director-general upon nomination of the directors of the Exposition, and during successive meetings, up to September 19th, the duties and powers of that office were the subject of legislation. On that day President Palmer, as chairman of the Executive

Committee, presented the recommendation by the latter body, for the selection of Colonel George R. Davis; and therewith forwarded communications from the Executive Committee of the directory:

CHICAGO, September 18, 1890.

Hon. THOS. W. PALMER, Chairman Executive Committee, World's Columbian Commission:

DEAR SIR: Acting under the courteous invitation extended by your committee to this board to express its preference in favor of one of the several candidates whose names are before you for appointment as director-general of your commission, the subject-matter of your invitation was submitted to our Board of Directors at a meeting held this evening.

After some discussion a vote was taken, resulting in a majority of the board in favor of Colonel George R. Davis.

This may therefore be received as an expression of the preference of this board upon the question.

Thanking you and your committee for their courtesy in this matter,

I am, very respectfully yours,

LYMAN J. GAGE,

President of the World's Columbian Exposition.

And Mr. Sewell, of New Jersey, submitted the following from a minority of the same committee:

The undersigned members of the Executive Committee respectfully dissent from the above report, and present for the position of director-general, the name of General Daniel H. Hastings, of Pennsylvania. We believe that he possesses every qualification for this responsible position, and most earnestly urge that his selection will meet the best thought of the land, that the Columbian Exposition is in no sense local, and in every sense national.

W. J. SEWELL,
E. KONTZ JOHNSON,
A. T. EWING,
L. H. HERSFIELD.
E. W. BREED.

An informal ballot was taken on the candidates so named, and Colonel Davis received a majority of all the votes cast, whereupon he was selected unanimously on motion of Mr. McClelland, of Pennsylvania, and a committee was appointed to notify him of that fact. Colonel Davis having been introduced by the president, made his acknowledgments to the Commission as follows:

MR. PRESIDENT AND GENTLEMEN OF THE NATIONAL COMMISSION: Your committee has just notified me of the distinguished honor that you have conferred upon me this morning. The selection made from Illinois and Chicago is complimentary to the city and State, and for the Local Board of Directors, for my city, my State, and myself I sincerely thank you. The selection of the director-general from untried men—men who have not had great experience—was a task for you to perform in which I most heartily sympathize with you. It is necessary in selecting a man for this position that you take much for granted, for an exhibition of an anniversary that comes only once in a hundred years leaves you but few men to select from who have had great experience.

In the discharge of the duties of this great office I will bring to it all the physical and mental forces that I command. The conduct of the office shall be of high grade, and it will be my duty to conform strictly and in every detail to the wish of this distinguished body. Politics have been referred to, and as I understand the position I desire to say one word in regard to that, and that is that I recognize that the constituency that elects me here to-day consists of one-half Republicans and one-half Democrats. It will be the duty of an honorable man to so conduct his office in his intercourse with all who come in connection with him—in the appointments that he has to make—to recognize that fact; and from the fact that it was a suggestion of my own, formulated by myself, and favored by myself when it was put in the Act of Congress, recognized as "the spirit of the Act of Congress." I will not, as your director-general, in any way fail to observe it in every particular.

The office will be conducted strictly upon business principles. I recognize that you require in all such officers as may be placed under my command the highest talent, the best ability, and the greatest capacity that we can command; that this is a National Exposition and an International Exposition and not a Local Exposition; that we will draw our forces from the country, draw our forces from wheresoever they may come, provided they are equal to the emergency.

The administration of my office will be an example, so far as it is possible for me to make it such, of the application of legal principles to business methods with military discipline.

I thank you, gentlemen, for the compliment, and am prepared to enter upon the duty.

[Colonel George R. Davis was born in the town of Palmer, Mass., in the year 1840, the son of Benjamin and Cordelia (Buffington) Davis, the former a native of Ware, Mass., and the latter a member of a well known Quaker family of Connecticut. George attended the public schools, and in other respects passed his boyhood after the manner of New England boys, and later prepared for college, graduating from Williston Seminary at Easthampton. This was just prior to



HON. GEORGE R. DAVIS,
DIRECTOR-GENERAL WORLD'S COLUMBIAN EXPOSITION.

the opening of the War of the Rebellion, so that instead of entering college, as he had anticipated, he, at the age of twenty-two, responded to the call for volunteers, and enlisted in the army as a private in Company H, Eighth Regiment Massachusetts Infantry. By gradual promotion he rose to the rank of captain, and in that capacity served with the Eighteenth Army Corps in the North Carolina campaign until August, 1863. Resigning his commission, he now returned to Massachusetts, clothed with proper authority, and recruited and organized a battery of light artillery. From this he was soon transferred to the Third Regiment Rhode Island Volunteer Cavalry, with the rank of major, and commanded it until the close of the war in 1865. After the war was over, Colonel Davis received an appointment in the civil department of the regular army, and was attached to the Department of the Missouri, of which General Sheridan was then in command. He served in the West with General Sheridan in the Indian campaign of 1868 and 1869, of which the engagement at the headquarters of the Washita was the most decisive, resulting in the defeat and routing of the famous chief "Black Kettle" and his band.

Colonel Davis was on duty at the headquarters of General Sheridan when that commander was stationed in Chicago in 1869, and continued his connection with the army until May 1, 1871, when he resigned and took up his residence in Chicago, where he has made his home ever since. Colonel Davis has always been an active and staunch Republican, and since his residence in Chicago has held a conspicuous place in the councils of his party as a recognized leader. He was elected to the United States Congress from the Second District of Illinois in 1878, and re-elected for the two succeeding terms. As a congressman Colonel Davis naturally took a prominent and leading place, and was one of the few of Chicago's representatives to that body whose efforts in behalf of their constituents were crowned with success. Among the important acts of legislation in which he took a prominent part, it is but just to say that securing a large appropriation for improving the Chicago harbor was chiefly due to his efficient and faithful work. In 1886 he was elected county treasurer of Cook County, Illinois, for a term of four years. When it was decided by Congress to celebrate the four hundredth anniversary of the landing of Columbus on American soil by a World's Exposition, Colonel Davis was one of the foremost in the promotion of the enterprise. A man of fixed opinions, iron will, unfaltering perseverance and unusual executive ability, he at the same time possesses a tireless energy, and whatever he attempts stops at nothing short of its attainment. He is a man of great personal magnetism, courteous yet dignified in manners, generous, kind hearted and genial, and has always attracted to himself many warm friends. With his splendid qualities of mind and heart he combines a finely proportioned physique, being strong in structure and of robust constitution. He is a handsome man in both form and feature, and a mass of iron-gray hair gives a distinguished air to an otherwise striking personality. Colonel Davis was married, in 1867, to Miss Gertrude Schulin, of New Orleans, Louisiana, by whom he has two sons and four daughters.]

The World's Columbian Exposition produced events, which, in many cases were co-incident with and in some cases ante-dated the proceedings of the World's Columbian Commission (two separate and distinct bodies). Even before the voice of Congress had declared in favor of Chicago as the stage upon which the great Columbian drama should be enacted, the corporate powers of the city were invoked to give promise of such provision of means and facilities as would guarantee adequate accommodation to the guests of the nation; and when that voice had rendered the final verdict, among the most essential requirements of the situation was the procuring of such enactments from the State Legislature, from the Common Council of the city, and the Park Commissioners, as would legalize the occupation and use by the Exposition authorities of the public grounds considered most desirable for the purposes in view. Repeated offers were made by the directory to obtain the grant of Washington Park in its entirety, but the commissioners remained firm in their determination to reserve this portion of the South Side system for the recreation of the citizens; consenting finally, however, to extend their original grant by the addition of the improved portion of Jackson Park and the Midway Plaisance, and making certain liberal concessions as to the preparation of the former. The end was reached on the 9th of September, 1890, when the directors by unanimous vote re-affirmed their decision of July.

When the first meeting of the stockholders was held in April 1890, *bono fide* subscriptions exceeding \$10,000,000 had been made, divided among nearly thirty thousand persons. After the organization of the corporate body by the election of directors, the first and most pressing task of the hour was to meet the condition by which alone the benefits of the Federal charter could be realized. It was determined to ask from the common council of the city of Chicago the issuance of five millions of dollars in bonds, the proceeds to be applied to the legitimate purposes of the Exposition; and on July 23, 1890, an ordinance was

passed, by a more than two-thirds vote, providing for the appropriation as asked and asking the sanction of the State Legislature to the ordinance. At the same time the mayor was directed to appoint a committee of five with instructions to proceed immediately to the capital of the State and communicate the action of the council to the governor. A committee from the Directors of the Exposition was also in attendance at Springfield in furtherance of the desired legislation.

On the 24th of July, 1890, bills so to amend the constitution as to enable the city of Chicago to issue bonds in behalf of the Exposition were introduced simultaneously in both the Senate and Lower House, and were referred to the Committee on Laws in both houses. These bills were drawn up by the directory, who sought the interests of the Exposition in the simplest and most direct form. But on the same day Mr. Berry presented to the House of Representatives a bill which differed from the above in requiring a popular vote to be taken on the constitutional amendment empowering Chicago to increase her bonded debt to the amount and for the purposes set forth. This and various other obstacles were interposed on alleged grounds of policy and principle. All the numerous propositions having been referred without debate, the whole matter came up for formal consideration, first before the Senate Committee on Laws. Vice-President Bryan advocated the original bill and opposed the delay that would be entailed by reference to a popular vote. He held that the constitutional inhibition of subscription by cities to private corporations did not apply in this case. That the object sought was a great public benefit, one for which a tax could be properly levied. On the 28th of July the directors, in response to the resolution of inquiry made reply in substance as follows:

The Board of Directors of the World's Columbian Exposition desiring to respond in a frank and proper spirit to the desire of the Legislature for information, submit that they have not at hand, nor is there at once attainable, the knowledge and the experience needful to determine in advance the details of classification and arrangement involved in "Exhibiting" the "arts, industries, manufactures and products of the soil, the sea, and the mines of forty or fifty thousand exhibitors from every portion of the earth;" that the work is colossal is beyond question, and not to be comprehended nor mastered except as the development progresses. It is deemed appropriate to submit a brief statement of the present situation of affairs, and to set forth the relations borne by the State of Illinois, the city of Chicago, and the directors of the incorporated body to the Exposition. By the Act of Congress, approved April 25, 1890, provision has been made for fitly commemorating the fourth centennial anniversary of the discovery of America by an exhibit "of the resources of the United States, their development and the progress of civilization in the world." The act declares that the exhibition should be of a national and international character, and authorizes the appointment of a Federal Commission, charged with certain duties of supervision and authority over the enterprise. That commission has been duly appointed by the President of the United States, and has entered upon its functions in reference to the inauguration and conduct of the Exposition. The question of locating the Fair developed upon Congress. Several States and the capital of the nation contested for the honor. Illinois petitioned to have the Exposition entrusted to her city of Chicago, and certain obligations were assumed in order to secure the favorable consideration of Congress. As one of the conditions precedent the citizens of Chicago were required to provide a fund of ten millions of dollars and produce satisfactory evidence that an eligible site for accommodation of the exhibition would be furnished; and assurances were also required that the State of Illinois and the city of Chicago as the custodians of the national credit would carry into effect to the extent of their resources the spirit and letter of the Act of Congress. The faith of the State and city was pledged by their accredited representatives before the world; and therefore Congress committed to Illinois and Chicago the honor so eagerly contended for by other communities; and thus were the people of this State committed to the duty and obligation of capitalizing and conducting the enterprise in a manner suitable to the occasion and creditable to the country. The citizens of Chicago provided by personal subscriptions five millions of the requisite sum, and they pledged their city by every assurance and act which can bind the conscience of a community, to contribute five millions additional. Legislation by the city of Chicago and by the State of Illinois was indispensable to compliance with the terms prescribed by Congress. The impression has been created that in the disposition of the exhibits some injustice may be done, or is contemplated, to the agricultural interests of the State and country by divorcing that display from the main body of the Exposition. The allegation is unfounded and unjust to the directory, which fully recognizes that agriculture is the chief source of national greatness and prosperity, and as such is entitled to conspicuous prominence in an enterprise of this character. The Exposition will be conducted as an entirety notwithstanding the discussion of a dual site. It is the intention of this board to locate the agricultural and stock exhibits of the Exposition, so far as may be possible, in the same enclosure with the exhibits of machinery, manufactures, and other leading interests.

[Here follows a schedule of the prepared classification and arrangement of exhibits pertaining to the farming industry.] The document closed with the solemn assurance of impartial administration of the affairs of the Exposition, with a view to do entire justice to all classes of exhibitors and to achieve credit for the State. It was signed by Messrs. Lyman Gage, Thomas B. Bryan, Benjamin Butterworth, president, vice-president, and secretary of the Exposition, respectively.

On the 29th of July the Senate passed the bill so amending the constitution as to authorize the city of Chicago to issue five millions of bonds in aid of the Exposition, with the provision attached that the amendment should be ratified by popular vote before becoming operative. On the following day the measure in this shape was committed to a joint committee of the two branches of the Legislature. July 31st the House of Representatives took up the subject. The Senate disagreed to a House amendment releasing the State from all prospective liability for the bonds to be emitted by the city of Chicago, and then followed days of conference between the representatives of the two Houses with no other apparent result than that of intensifying the differences between them. At this juncture a new cause of division was found in an amendment stipulating that the "eight-hour law should be observed in erecting the buildings for the Exposition, and that in the employment of labor a distinction should be made in favor of American-born workmen and such foreigners as should have previously declared their intention to become citizens of the United States." A lengthy and heated debate ensued upon the introduction of this proposition, but it was finally adopted in the House of Representatives by a great majority. The same body also appended another section to the bill prescribing a fine of not less than one thousand dollars for violation of the foregoing provision. As thus, and otherwise, added to and subtracted from, the measure finally passed the House of Representatives by a vote of 130 yeas to 16 nays. The Senate then adopted the measure, accepting most of the amendments, but rejecting those embodying the eight-hour law and referring to the submerged lands on the lake front. The House when informed of this fact decided to adhere to its position, and thus matters of difference were again submitted to a joint committee of the two bodies. However, the hopes so long deferred were now about to be realized; a spirit of compromise prevailed over less discreet and patriotic counsels; and on August 5, 1890, Governor Fifer applied his signature to the acts granting in substance all that the authorities of the Exposition had asked from the State.

The General Assembly thus swept away all legal obstacles to the occupancy of the park; and the seal of popular approval was affixed to the lending of Chicago's credit to the aid of the Exposition. Before the year the directory were able to report to the National Commission that the sum designated by Congress was available for use, and this fact was forthwith certified by the commission to the President of the United States, who, under date of December 24, 1890, made proclamation that the conditions and requirements imposed by Congress had been complied with; declaring that an International Exposition would be opened in Chicago on the first day of May, 1893; and, in the name of the government and people of the United States, inviting "all the nations of the earth to participate in the commemoration of an event that is pre-eminent in human history, and of lasting interest to mankind, by appointing representatives thereto, and sending such exhibits as will most fitly and fully illustrate their resources, their industries, and their progress in civilization." This document was enclosed in a formal letter of transmission from the Secretary of State to all the foreign governments with which this country has diplomatic relations, and was accompanied by copies of the regulations for foreign exhibits, regulations of the Treasury department governing the free importation of exhibits, and the prospectus of a proposed World's Congress Auxiliary.

This completed the official functions by which the Exposition was brought to an active condition, and the plans were ripe for execution.

At this period the directory took stock of ways and means and made estimates of the probable outlay for all charges of construction, administration and operation up to the close of the exhibit on October 31st, and this resulted in the conclusion that further appropriation by Congress would be necessary.

October 21, 22 and 23, 1892, the Exposition buildings were dedicated amid much splendor and pomp. The tide of inflowing humanity began early in the week; all disengaged rooms at hotels were quickly filled; Exposition headquarters suddenly bristled with special sessions. Bales of bunting were unrolled and the façades of the business streets were enlivened with the colors of the United States and Spain, lavishly entwined upon a rich background of terra cotta and the inverted Y of white.

The arrivals of Monday and Tuesday were large. Wednesday they were larger. Special trains arrived filled with magnates, who were to be the guests of the Exposition officials—the executive and judicial officers of the Government and the diplomatic corps at Washington; the governors of the States with their staffs—more than three times as many as there were stars on the first flag, and the officers of the regular army. Three hundred thousand people passed through the train gates at the principal railway stations during Wednesday. By night-fall more than a quarter of a million strangers had been absorbed into the life of the city. The capacity of the Manufactures Building, the most magnificent hall in the world, was tested to the uttermost upon the occasion and met the demand. The white and gold semisphere of the ceiling was arched with glittering lights and garlanded with green, and the colors of the United States and Spain were festooned along the boxes. The Castilian shades furnished the color scheme of the decorations, while above the yellow and red the electric stars blazed the auspicious dates 1492—1892. Wednesday night a grand inaugural ball was given at the Auditorium, which was a society affair never to be forgotten by those who were present, and one of the gratifying features of the ceremonies of dedication.

During the early hours of Thursday morning, while yet the guests of the Inaugural Reception were hurrying home, the million and a half people who slept in Chicago were at breakfast, and by eight o'clock in the morning most of them were hurrying to the line of march of the civic parade. The streets were soon congested in the region of the municipal heart, and every side street and station was a feeder contributing to the crush. The streets through which the procession moved, were policed by 1,284 men strung along both sides, and keeping a space in the center absolutely clear. Thousands of eyes looked down from above on step-ladders, dry-goods boxes, and improvised coigns of vantage, while every row of windows up to the roofs held fringes of overhanging heads festooned in bunting that draped the walls.

At the Government Building 1,800 little girls formed an animated flag, whose stars were anything but fixed. Here Vice-President Morton reviewed the parade. Many great men were on the stand with him. At his side sat ex-President Hayes, Director-General Davis, Secretary of State Foster, and President Palmer. Members of the Cabinet and diplomatic corps and ecclesiastic dignitaries were also there. At twenty minutes to twelve the salute was fired on the Lake Front and the platoon of mounted police advanced up Michigan avenue. At 12:25 General Miles, in civilian dress, uncovered his head to the vice-president. For three hours the mighty muster of Peace rolled past. Scots in plaids, English merchants floating the British Jack, Italians, Swedes, Poles, German Turners, Danes, Russians, all in picturesque society regalias, marched under the stars and stripes, stepped to American marches, and saluted the American flag.

Presently the pageant came to a full stop; the last carriage saluted, the celebrities had left the reviewing stand and disappeared. For a few moments the throngs drifted helplessly in whirlpools, then the currents moved west, north, south, and the streets were emptied by magic.



COMMISSIONERS WORLD'S COLUMBIAN COMMISSION

- | | | |
|--|---|---|
| 1. CHAS. K. HALLIDAY,
<i>Kansas.</i> | 2. HENRY KLIPPEL,
<i>Oregon.</i> | 3. CHAUNCEY M. DEPEW,
<i>New York.</i> |
| 6. W. H. PORTER,
<i>Delaware.</i> | 5. LAFAYETTE MCLAWS,
<i>Georgia.</i> | 4. HENRY H. MCINTYRE,
<i>Vermont.</i> |
| 7. LEVERETT BRAINARD,
<i>Connecticut.</i> | 8. THOS. M. WALLER,
<i>Connecticut.</i> | 9. EDWARD DE GROFF,
<i>Alaska.</i> |
| 12. BRADLEY B. SMOLLEY,
<i>Vermont.</i> | 11. GEORGE RUSSEL,
<i>Nevada.</i> | 10. HENRY DRUM,
<i>Washington.</i> |
| 13. ROSWELL E. GOODELL,
<i>Colorado.</i> | 14. THOS. L. WILLIAMS,
<i>Tennessee.</i> | 15. HARVEY P. PLATT,
<i>Ohio.</i> |



COMMISSIONERS WORLD'S COLUMBIAN COMMISSION.

- | | | |
|---|--|---|
| 1. WM. G. DAVIS,
<i>Portland, Me.</i> | 2. JAMES HODGES,
<i>Baltimore, Md.</i> | 3. LLOYD LOWNDES,
<i>Cumberland, Md.</i> |
| 6. H. B. MOORE,
<i>Duluth, Minn.</i> | 5. GEO. H. BARBOUR,
<i>Detroit, Mich.</i> | 4. M. HENRY LANE,
<i>Kalamazoo, Mich.</i> |
| 7. ORSON V. TOUSLEY,
<i>Minneapolis, Minn.</i> | 8. JOSEPH M. BYNUM,
<i>Rienzi, Miss.</i> | 9. ROBERT L. SAUNDERS,
<i>Jackson, Miss.</i> |
| 12. EUCLID MARTIN,
<i>Omaha, Neb.</i> | 11. CHAS. H. JONES,
<i>St. Louis, Mo.</i> | 10. THOMAS B. BULLENE,
<i>Kansas City, Mo.</i> |
| 13. ALBERT G. SCOTT,
<i>Kearney, Neb.</i> | 14. WM. J. SEWELL,
<i>Camden, N. J.</i> | 15. THOMAS SMITH,
<i>Newark, N. J.</i> |

Friday the popular enthusiasm exceeded, if possible, that of the day before. The crowds of Thursday had gone home simply to restore exhausted nature. They appeared early the next morning in as great numbers, and the less congested condition of the streets was due to the effort of the multitudes to reach the South Park system. An inconsiderable proportion of the people was sufficient to pack the Lake Front, fill the stands erected along Michigan boulevard, and border the seven miles' line of march. The transportation companies going south were taxed to their fullest capacity, as the collection of 600,000 fares both ways amply testifies. Fully 250,000 people were carried to the parks on the trains, cable lines, and boats, and the number who walked, drove, or marched in the procession is scarcely to be estimated.

Promptly upon the firing of the salute at nine o'clock General Miles and his staff wheeled in front of the Auditorium in brilliant array, the United States Fifth Cavalry close behind, splendid in military trappings of gold and mounted on satin-coated bay horses. The Governors of the States with their gorgeous staffs seemed interminable. At Twenty-ninth street President Higinbotham's white marble palace was elaborately decorated with the flags of all nations. Here the crowd was densest, and the enthusiasm wildest when Mr. Higinbotham, Vice-President Morton, President Palmer, and other distinguished guests entered carriages and swung into the procession.

From this point the line proceeded, between banks of spectators, down the broad esplanade of Grand boulevard to Washington Park, where the United States Infantry were placed. Here the multitudes witnessed an inspiring scene—the military maneuvers—the full panoply of war. It proved an attraction second only to the dedication ceremonies, and amply repaid those who saw it for hours of waiting.

While it seemed the whole world was without the gates, nearly 100,000 people waited in the mammoth Manufactures' Building, seated comfortably in chairs. The immensity of the building silenced them. The decorations were necessarily on a massive scale and simple lines. From each of the twenty-seven trusses, that rise 200 feet to the roof, a United States flag was hung. The gallery at the north end, reserved for the bands, was draped in terra cotta; and the south gallery, where the chorus was massed, was festooned with oak-leaf ropes. The great stage, semi-circular in shape, was draped in American and Spanish colors, and hedged in with rows of potted chrysanthemums in broad bands. A national flag draped the desk. Behind and above the stage the entire arch was a mass of festooned flags, over which hung the banner of Ferdinand and Isabella and their coat-of-arms. Flags of all nations filled every intervening space. But the crowning glory of the decorations was the official banner of the World's Columbian Exposition displayed for the first time. It is triangular in form, divided evenly at the staff. One-half the ground is blue, signaling Lake Michigan; the other half is white, suggestive of the Exposition buildings; the fringe is of dark gold, which, with the white, makes the colors of Isabella.

The ceremonies themselves were profoundly impressive from the Columbus hymn to the benediction. The great audience was lifted up to heights of spiritual vision to perceive the meaning of centuries, in which only large events loomed like mountain peaks and trivialities were leveled and lost. The speakers were inspired to the loftiest flights of eloquence and each one uttered sentiments as noble as the deeds of which he spoke.

Bishop Fowler of the Methodist Episcopal church invoked a divine blessing. Director-General Davis delivered an address which was scholarly and classical in its diction. Mrs. Le Moyne read the Columbian Ode, written by Harriet Monroe, the young poetess of Chicago. It proved a surprise in its simplicity and strength.

The artists and architects of the buildings were then presented with the medal designed by Elihu Vedder, and Mrs. Potter Palmer advanced to the desk calm and smiling. She delivered an address replete with oratory and in a man-

ner at once pleasing and easy. In her remarks she gave a lucid account of the initiatory steps taken by the Board of Lady Managers without touching upon politics, suffrage or other irrelevant issues, and foreshadowed the work the board would do in the formation of a public sentiment, which will favor woman's industrial equality, and her receiving just compensation for services rendered; to secure for her work the consideration and respect which it deserves, and establish her importance as an economic factor. She closed by expressing thanks to the Congress of the United States for having made this great step forward and also for having subsequently approved and indorsed the plans of the Board of Lady Managers, as was manifested by their liberal appropriation for carrying them out; her appreciation of the assistance given by the President of the United States, the Department of State, and our foreign ministers, and hoped to have occasion to thank all the other great departments of the Government before the work was finished. No speech was more generously received than Mrs. Palmer's dedicatory remarks, and none elicited more favorable comments from the public press.

President Higginbotham, on behalf of the Local Directory, tendered the buildings to the National Commission, which President Palmer accepted and in his turn bestowed upon the Nation in an appropriate speech.

In the absence of President Harrison, the cause for which he deeply deplored, Vice-President Morton accepted the buildings for the United States.

Impressive as these talks were, they made no pretense to oratory. When Mr. Henry Watterson came down the rostrum cheers rose. Strong as was the voice of the Kentuckian, it failed to fill the vast auditorium. Only a trumpet could have done that. But back to the walls the people cheered both him and Mr. Depew whenever the front rows applauded.

Almost before the applause died the chorus of 5,000 voices rendered "In Praise of God," Beethoven's anthem, followed by the benediction, by Rev. H. C. McCook of Philadelphia. The solemn "Amen" of the speaker was thundered to the skies in the deep roar of the artillery, and the crowd dispersed to the mighty voice of the National salute.

The pyrotechnics at night closed the ceremonies of dedication. Promptly at 8 o'clock the flash-light from the Manufactures Building gave the signal. The next instant three bombs burst simultaneously in Washington, Lincoln and Garfield Parks, cut long, curving streaks of light to the zenith, and fell in glittering rainbow-colored balls like the jeweled ribs of a vast umbrella above the heart of the city. Then a hundred balloons were loosed from their moorings in each park, and when in mid-air discharged rockets which changed to glowing bubbles of vari-colored fire.

From the time of the dedication of the buildings and the formal transfer of them to the authorities of the United States increased activity in the work was noticeable. Upward of 10,000 workmen and employes were scattered over the "White City," and at every unfinished building the work seemed to be in semi-suspense, or to have the air of an industrial festival. Deliberation was the order of the day, flavored, however, with eager interest and willingness. Good wages, a little above the market rates, were a healthy incentive, and every mechanic with a spark of fire in his nature must have been quickened by the magnificence of his task. Also deliberation was a necessity in three-fourths of the work, which required caution as well as judgment; for many aerial gymnasts were perched from 60 to 260 feet in the air. Sky generalship of a high order was to be seen under the arching roof of the great buildings. Here, after months of patient lifting and fitting of unprecedented weights at great heights, each man had grown to know his duty intimately. From some lofty perch the foreman of a gang would conduct his men somewhat after the manner of the leader of an orchestra. Whenever he fell short of the mark he would shout his general order to an assistant half-way down, on the opposite side of the span, and the latter would give fuller instruction to another assistant on the floor. After each move

all eyes would turn to the directing mind aloft. Under those roofs feats were accomplished worthy to have called forth a "wild surmise" from the Egyptians who piled the pyramids.

Manual labor also has its victory in these monumental buildings, and no doubt the descendants of these skillful artisans will preserve the tradition of their labors at the Exposition. Considering the chances for fomenting strikes, the bickerings have been slight and of only short duration. Every legitimate and reasonable position taken by organized labor was carefully considered by the Exposition authorities, and by them given respectful consideration. Strikes did occur, but they were not of a serious character, and all differences were settled on a fair and amicable basis shortly after they arose.

Looking now somewhat into the future the question arises, "Will it pay?" Liberal ideas have controlled the pursestrings, yet the financial problem has been handled with economy, and even with thrift. With the exception of the first London exhibition of 1851, world's fairs have been a costly luxury to their patrons; that fair, in covered area, was less than one-fifth the size of the Columbian Exposition; it was open 144 days, and the receipts almost doubled the expenses. In 1867 Louis Napoleon opened his second Paris Exposition, and, considering its success as a "dazzler," did not probably begrudge the wide difference between the expenses, which were \$4,000,000, and the receipts, which amounted to \$2,100,000. Eleven millions was spent on the Vienna Exposition of 1873, and ten millions of it went into the financial crash that it heralded. Under republican management, Paris, in 1889, produced a remarkable fair, a third larger than the Vienna Exposition, with the same outlay, and with a satisfactory income. Like the Philadelphia Centennial, the Parisian fair with its buildings covered only one-half the space of the Columbian Exposition. At Philadelphia the receipts (\$3,800,000) fell nearly 60 per cent. short of the cost, which was \$8,500,000. Circumstances and conditions are different, however, regarding this Exposition. From its very inception local pride and able financiers were enlisted in the problem of making the World's Columbian Exposition pay expenses; more is not asked. Nearly all the subscriptions to the capital stock were given as a token of public spirit. When it became apparent in the spring of 1892 that the \$14,000,000 or \$15,000,000 then in sight would not complete the grounds and buildings on the scale that had been adopted to a point where it was impossible to turn back, the management appeared before Congress asking for a loan of \$5,000,000. Congress declined the loan, yet gave \$2,500,000 in souvenir coins. By the simple process of holding these coins at a premium of 100 per cent. the managers realized the full \$5,000,000 from the kindly act of Congress, and increased the available funds to \$20,000,000.

Up to April 1, 1893, there had been expended \$16,708,826.48—a sum equal to twice the cost of the Paris Exposition.

Of this amount \$14,411,506.74 has gone into the buildings. That amount represents every feature of construction at Jackson Park, including the preparation of the site and the cost of labor. General expenses, which include everything outside of construction, are figured at \$2,206,644. This includes all salaries and almost every kind of incidentals. One of these items is \$12,975 for removing ice and snow. From this it will be seen that the storms which enveloped the roofs last winter did considerable damage. The dedication ceremonies cost \$221,158. The opening ceremonies cost but \$5,000. It cost \$108,000 to handle the souvenir coins. Traveling expenses have been \$25,558, and the item of uniforms reaches \$12,592, though this will be repaid. The stationery and printing bills are \$49,925, and postage stamps have cost \$52,684. Insurance companies have received \$72,000 in premiums. Janitors have drawn \$34,690 for their services. The cost of furniture and fixtures for the offices reaches the sum of \$43,781 and the rent bill has amounted to \$58,124. The salaries of clerks has netted \$264,754 and the salaries of officers \$260,938. The pay-roll for March shows that 4,124 persons drew salaries and wages amounting to \$314,425, or an

average compensation of \$76.24 per month or \$2.46 per day. Contracts for construction purposes amounted to \$12,469,201 up to the 1st ultimo, of which \$2,361,263.37 was to be paid. The total receipts up to April 1st were \$17,496,432.16, of which there was a cash balance of \$626,396.58 on hand. If all goes well with the estimates from gate receipts, concessions, salvage, etc. (and all indications point to success), the auditor's ledger at the wind-up will no doubt show a balance to the credit of the enterprise.

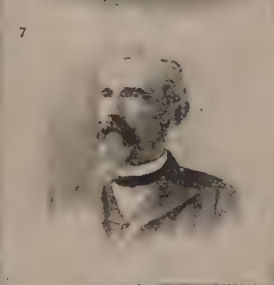
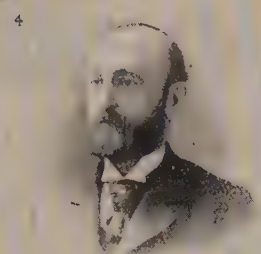
A large portion of the funds have come from Chicago or corporations doing business in this city; \$5,500,000 have been subscribed here in capital stock; \$5,000,000 were given by the city of Chicago; when it became necessary to put up \$5,000,000 worth of bonds on the market, forty-four Chicago banks subscribed for \$2,314,000, and twelve railroads with terminals here took another \$1,000,000, making practically \$15,000,000 raised in Chicago.

The United States government has contributed \$1,500,000 originally; \$2,500,000 in souvenir half dollars; \$408,250 for construction of the United States Building; \$151,750 for the maintenance of the United States Government exhibit; \$20,000 to enable the Secretary of the Treasury to pay the expenses of receiving foreign goods for the Exposition; \$103,000 for medals and diplomas; \$688,625 for salaries, etc., of the National Commission, including the fiscal year, ending June 30, 1894, making a total for all purposes of \$5,371,625.

The total appropriations made by foreign countries approximate \$7,000,000; by the states and territories, \$6,000,000.

After the buildings were practically finished the herculean task of installation came next. Exhibitors were slow in forwarding their exhibits, and for a time it appeared as if the Exposition would not be in readiness to open at the appointed time. While the Director-General stood out for a long time against receding from the position taken in the beginning, that exhibits must be in position early in April, he finally yielded to the inevitable and postponed the "day of grace." After continuous reminders that the Exposition would surely open on the 1st of May, exhibitors began sending in their goods and wares at a lively rate by the middle of April, and from that time up to the present activity and bustle has been the order of the day.

May 1st, the Exposition was formally opened and fully 350,000 people were present. From the east portal of the Administration Building to the walk along the west side of the grand basin, immense platforms had been constructed. On the outer platform a small table, covered with the United States flag, stood on a platform six feet in height. Resting on the stars and stripes was the velvet base of the magic key that was to send the thrill into Machinery Hall and formally open the Exposition. Above this rich velvet and gold pyramid the key itself rested like a beautiful jewel. Stretching upward and backward from this centerpiece rose the grand stand, tier on tier. It was a remarkable gathering in many ways that filled the grand stand. Not only were there men and women of distinction among them, but a dozen nations contributed to the assemblage. Chicago's representative men were there, almost to a man, it seemed. Congress was represented in both houses in this earlier gathering. The army, the navy, the bench and the bar held a place. It was among the foreign contingent that attention was chiefly directed. Three figures well to the front received general notice. They were the Scottish Earl of Aberdeen, Sir Edward Birbeck and Sir Henry Wood. Baron Kunowski came on the platform accompanied by Marshall Field. Abdul Rahman, Rajah of Johore, was a noticeable figure, dressed in black, with a purple apron tied about him, and with an oriental wealth of insignia across his broad expanse of shirt front. Fred Douglass' dark face and long, white fleece showed near the big frame of Buffalo Bill, who, wearing a white sombrero, passed among the throng to be admired. The local officials arrived in squads. The first to appear were the judges of the courts, with Judge Horton and Judge Ewing in the lead. They occupied front seats and appeared to enjoy themselves immensely. The members of the Legislature came soon afterward, and then



COMMISSIONERS WORLD'S COLUMBIAN COMMISSION.

1. ALEXANDER B. ANDREWS,
North Carolina.
6. WM. MCINTYRE,
South Dakota.
7. ARCHELAUS M. COCHRAN,
Texas.
12. RICHARD MANSFIELD WHITE,
New Mexico.
13. OTHNEIL BEESON,
Oklahoma.

2. THOS. B. KEOGH,
North Carolina.
5. MERRITT H. DAY,
South Dakota.
8. JOHN T. DICKINSON,
Texas.
11. THOMAS C. GUTIERRES,
New Mexico.
14. FRANK R. GAMMON,
Oklahoma.

3. R. B. RICKETTS,
Pennsylvania.
4. JOHN W. WOODSIDE,
Pennsylvania.
9. GEORGE F. COATS,
Arizona.
10. WM. K. MEADE,
Arizona.
15. FREDERICK J. KIESEL,
Utah.



COMMISSIONERS WORLD'S COLUMBIAN COMMISSION.

- | | |
|--|---|
| 1. LOUIS L. WILLIAMS,
<i>Alaska.</i> | 2. THOS. E. PROCTOR,
<i>Massachusetts.</i> |
| 3. LEWIS H. HERSHFIELD,
<i>Montana.</i> | 4. JAMES W. HAINES,
<i>Nevada.</i> |
| 5. MARTIN WILKINS,
<i>Oregon.</i> | 6. V. D. GRONER,
<i>Virginia.</i> |
| 7. C. B. HOPKINS,
<i>Washington.</i> | 8. J. D. BUTT,
<i>West Virginia.</i> |
| 9. H. G. HAY,
<i>Wyoming.</i> | 10. CARL SPURN (Alternate),
<i>Alaska.</i> |

came the governor's staff, resplendent in dazzling new uniforms and befeathered chapeaus. The county commissioners, the aldermen, and many other county and city officers came also.

At 11:15 President Cleveland approached the table in front, with Director-General Davis on one side and Charles Henrotin on the other. Bunched behind them came a crowd of notables—Secretaries Gresham, Carlisle, Smith and Herbert, Vice-President Stevenson, President Palmer, of the National Commission; the Duke of Veragua, Chaplain W. H. Milburn, of Washington; Lyman J. Gage, President Higinbotham, Director of Works Burnham and others. Back of them, on the grand stand, were Governor Altgeld, of Illinois; Gen. Nelson A. Miles, Lambert Tree, Speaker Crafts, of the Illinois House of Representatives; Lieutenant-Governor Gill and other State officers of Illinois, Senator Cullom, of Illinois; Senator Mitchell, of Wisconsin; Senator Allison, of Iowa; Congressman Springer, of Illinois; Ashley, of Massachusetts; Campbell, of New York; Barwig, of Wisconsin; McDonald, of Illinois; Buckner, of Wisconsin; Houk, of Ohio; O'Neill, of Pennsylvania; Durborow, of Illinois; Henderson, of Iowa; Black, of Illinois, and McGann, of Illinois; National Commissioners Widener, Bradley B. Smalley, G. W. Allen, George H. Barbour, V. D. Groner, James Hodge, Thomas B. Keogh, A. T. Ewing, James H. Breslin, J. W. St. Clair, and Directors Thomas B. Bryan, F. W. Peck, J. W. Ellsworth, W. D. Kerfoot, William P. Ketcham, E. F. Lawrence, A. H. Revell, C. H. Wacker, James W. Scott, C. T. Yerkes, C. H. Schwab and ex-President W. T. Baker; also Mrs. Potter Palmer, the ladies of the ducal party and a few members of the Board of Lady Managers, Mayor Harrison and others.

The diplomats failed to attend in a body, although many of prominence were present.

The President of the United States bowed to the cheering crowds below him. He seated himself, with the Duke of Veragua and Mr. Higinbotham on his right. Messrs. Palmer, Burnham and Davis seated themselves at his left hand. A moment later the Director-General arose, and, turning toward the great band under the arched entrance of the Administration Building, waved the type-written copy of his speech. The instruments burst into the strains of the Columbian march and hymn, after which prayer was offered by the Rev. Mr. Milburn, known far and wide as the "blind preacher." The prayer was long and was scarcely heard fifty feet away. People below had become unmanageable and the attention of nearly every one on the stand was directed to them. When the prayer was ended W. D. Croffut's poem, "The Prophecy," was read by Miss Jessie Couthoui. It was scarcely heard twenty feet from the stand, though the lady's gestures were watched and cheered by the vast throng.

The orchestral overture, "Reinzi," followed, after which the Director-General rose to speak. His address was cut very short, both from inability to make himself heard and on account of the crushing, surging, restless crowd of people below him.

President Cleveland's address was a very short one. In rising he laid off his hat, putting his right hand rather nervously to his hair. Then his hand dropped into his overcoat pocket and he stood stroking his moustache with his left hand as he waited for the applause to subside. He talked slowly and probably succeeded better in making himself heard beyond his immediate surroundings than did any one else.

It was just 12:04 o'clock when he stepped forward and pressed the key that started the machinery in Machinery Hall.

Suddenly the great flag whose silken folds of red, white and blue had drooped at the foot of the middle flag-pole in front of the President's platform, climbed swiftly to the top, where it hung glistening below the golden caravel crowning the mighty shaft. The banner of Columbus, white with the green cross of the inquisition and "F. Y." the initials of his sovereigns, rose more slowly on the tall pole to the right. From the left came a burst of color, and

the red banner of Castile, with its rampant lion, rose in the air. Then while the people gazed in wonder at the scene of magic, banners bourgeoned along the roofs of the palaces about the court of honor. They broke forth in folds of red and saffron and green and blue and white. The whistles of the steam launches in the basin drowned out the boom of the cannon aboard the man-of-war Michigan, whose white hull lay in the lake beyond the Peristyle. The fountains spurted a hundred feet in the air, their feathery tufts of water catching rainbows in the sunshine. The cheers rose tumultuously, and when the noise finally died away the faint sound of distant machinery told that the Exposition was an accomplished fact.

The gates are now open under most favorable conditions, and as the colossal undertaking expands to the zenith of its glory successive issues of the Official Directory and Reference Book will give additional details of the wonders to be seen.



GROUP OF PRESIDENTS OF STATE BOARDS,
WORLD'S FAIR MANAGERS.

- | | | |
|--|---|---|
| 1. Gen. John W. Corcoran,
<i>Massachusetts.</i> | 2. Hall C. Burleigh,
<i>Maine.</i> | 3. Clem. Studebaker,
<i>Indiana.</i> |
| 4. Gov. R. E. Pattison,
<i>Pennsylvania.</i> | 5. Gov. Frank Brown,
<i>Maryland.</i> | 6. August L. Smith,
<i>Wisconsin.</i> |
| 7. Stephen J. Meeker,
<i>New Jersey.</i> | 8. Capt. A. A. Woods,
<i>Louisiana.</i> | 9. A. S. Buford,
<i>Virginia.</i> |
| 10. W. H. Dulaney,
<i>Kentucky.</i> | 11. N. G. Blalock, M. D.,
<i>Washington.</i> | 12. James M. Wells,
<i>Idaho.</i> |
| 13. W. N. Chancellor,
<i>West Virginia.</i> | 4. James Mitchell,
<i>Arkansas.</i> | 15. W. T. Thornton,
<i>New Mexico.</i> |



GROUP OF PRESIDENTS OF STATE BOARDS.

1. LA FAYETTE FUNK,
Illinois.
4. J. B. SMITH,
Delaware.
7. H. B. ANDREWS,
Texas.
10. W. W. PEABODY,
Ohio.
13. D. B. SMALLEY,
Vermont.

2. S. P. BEHAN,
Arizona.
5. D. O. MONFORT,
Minnesota.
8. PROF. ANDREWS,
Rhode Island.
11. C. H. AMSDEN,
New Hampshire.
14. JNO. S. HARPER,
Wyoming.

3. J. O. CROSBY,
Iowa.
6. A. J. SEAY,
Oklahoma.
9. M. W. COBURN,
Kansas.
12. CHAUNCEY M. DEPEW,
New York.
15. I. M. SCOTT,
California.

STATE AND TERRITORIAL PARTICIPATION.

The following shows the States and Territories that are participating, and the amount each has appropriated for its exhibit. In addition to these appropriations a total of over one million dollar was contributed by subscriptions of individuals and by counties. At the time of going to press on this edition, bills were pending for additional appropriations as follows: Alabama (original), \$38,000; Colorado, \$10,000; Connecticut (original), \$75,000; Ohio, \$75,000; Tennessee (original) \$50,000; West Virginia, \$25,000; New Mexico, \$17,000.

States.	Appropriation.	Dimensions of B'ld'g in feet.	Cost of B'ld'g including donated material.
Alabama.....	None.	None.	.....
Arkansas.....	\$ 15,000	66x92	\$ 18,000
California.....	300,000	144x435	75,000
Colorado.....	167,000	45x125	35,000
Connecticut.....	None.	72x73	15,000
Delaware.....	10,000	58x60	8,000
Florida.....	None.	137x137	20,000
Georgia.....	"	None.	.....
Idaho.....	50,000	70x90	30,000
Illinois.....	800,000	160x450	250,000
Indiana.....	125,000	53x152	75,000
Iowa.....	130,000	60x100	50,000
Kansas.....	65,000	135x138	25,000
Kentucky.....	100,000	75x90	35,000
Louisiana.....	36,000	66x56	18,000
Maine.....	58,900	65x65	22,000
Maryland.....	60,000	80x120	25,000
Massachusetts.....	175,000	82x110	65,000
Michigan.....	125,000	100x140	50,000
Minnesota.....	150,000	78x91	30,000
Mississippi.....	None.	None.	.....
Missouri.....	150,000	86x86	50,000
Montana.....	100,000	62x113	20,000
Nebraska.....	85,000	60x100	20,000
Nevada.....	10,000	None.	.....
New Hampshire.....	25,000	53x84	10,000
New Jersey.....	130,000	40x60	40,000
New York.....	600,000	105x160	150,000
North Carolina.....	25,000	None.	.....
North Dakota.....	25,000	50x70	25,000
Ohio.....	100,000	80x100	35,000
Oregon.....	60,000	None.	.....
Pennsylvania.....	300,000	110x166	80,000
Rhode Island.....	57,500	32x59	8,000
South Carolina.....	None.	None.	.....
South Dakota.....	60,000	70x126	20,000
Tennessee.....	None.	None.	.....
Texas.....	"	85x250	30,000
Vermont.....	29,750	.....	10,000
Virginia.....	31,000	175x185	25,000
Washington.....	100,000	118x208	100,000
West Virginia.....	60,000	58x123	20,000
Wisconsin.....	165,000	80x90	30,000
Wyoming.....	30,000	60x70	20,000
Territories:			
Alaska.....	None.	None.	.....
Arizona.....	35,000	{ Joint B'ld'g. }	.....
New Mexico.....	25,000		7,500
Oklahoma.....	15,000		.....
Utah.....	.....	46x82	15,000

ALABAMA.

National Commissioners: Frederick G. Bromberg, Mobile; Oscar R. Hundley, Huntsville. Alternates: Gotthold L. Werth, Montgomery; William S. Hull, Sheffield.

National Board Lady Managers: Miss Hattie T. Hundley, Mooresville; Mrs. Anna M. Fosdick, Mobile. Alternates: Mrs. S. H. Bush, Birmingham; Miss Irene W. Semple, Montgomery.

Alabama has no State Board of Commissioners nor a building, the Legislature having failed to make an appropriation. Some funds were raised in the State, however, pending the action of the Legislature on the World's Fair Bill, but it was not a sufficient amount with which to erect a creditable building and the movement was abandoned.

ARKANSAS.

Following are the members of the Arkansas State Board of Commissioners: James Mitchell, President, Little Rock; Hal L. Norwood, Secretary, Locksburg; R. H. Adair, Manager, Fort Smith; Miss Fannie Scott, Lady Assistant Manager, Van Buren; W. S. Thomas, Little Rock; R. B. Weaver, Rally Hill; Edward W. Pascoe, Cushman.

National Board Lady Managers: Mrs. James P. Eagle, Little Rock; Mrs. Rollin A. Edgerton, Little Rock. Alternates: Mrs. Margaret M. Radcliff, Little Rock; Mrs. William B. Empie, Newport.

National Commission: J. T. W. Tiller, Little Rock; J. H. Clendening, Fort Smith. Alternates: James T. Mitchell, Little Rock; Thomas H. Leslie, Stuttgart.

The design of the Arkansas Building follows classic models, it being in the French "Rococo" style of architecture, as Arkansas was originally settled by the French. The exterior is in plaster and ornamental staff work, tinted in light color. The interior is tinted, and the ornamental work is brought out in gold. The building has a ground area of 66 by 92 feet. From a large circular veranda, which runs the width of the building, an elliptical entrance opens to the rotunda, 30 by 30 feet, lighted by a central dome. In the center of the rotunda is a fountain of Hot Springs crystals, lighted by electricity. Flanking the rotunda are six rooms, 15 feet square. Five of these are used as exhibit rooms, with the registry room on the right of the entrance lobby. Opening from the rotunda, by triple arches, is the hallway, 11 by 55 feet, with the stairways on each side of the arched entrance. At the rear of the building is the assembly hall, 25 by 65 feet, which is entered from the hallway through triple arches. In this hall, opposite the entrance, is a 10-foot mantel, of Arkansas white onyx. Columns and vases of the same material are placed in various parts of the building. On the second floor are parlors for men and women, a library, committee and officers' rooms. All of these rooms open on a broad gallery, over the rotunda, lighted from the central dome. Designer, Mrs. Jean Douglas, of Little Rock; cost \$18,000. The exhibits made by Arkansas are to be found in the State building.

CALIFORNIA.

Following are the members of the California State Board of Commissioners: Irving M. Scott, President, San Francisco; Jas. D. Phelan Vice-President, San Francisco; N. J. Bird, General Manager; C. M. Wells, Secretary, San Francisco; John Daggett, Black Bear; R. McMurray, San Francisco; A. T. Hatch, San Francisco; L. J. Rose, Los Angeles; S. W. Ferguson, Bakersfield.

State Board Lady Managers: Mrs. E. O. Smith, President; Mrs. Flora M. Kimball, Vice-President; Mrs. A. Marcellus, 2d Vice-President; Mrs. Ella Sterling Cummins, Mrs. Anna M. Reed, Mrs. Olive C. Cole, Mrs. Virginia Bradley; Mrs. Hester A. Harland, Secretary.

National Board of Lady Managers: Mrs. Parthenia P. Rue, Santa Rosa; Mrs. James R. Deane, San Francisco. Alternates: Mrs. Isaac L. Requa, Piedmont; Mrs. Frona E. Waite, San Francisco.

National Commission: Michel H. de Young, San Francisco; William Forsyth, Fresno. Alternates: George Hazleton, San Francisco; Russ D. Stephens, Sacramento.

Next to the Illinois Building California's is the largest of the State buildings, and cost \$75,000. Its dimensions are 144x435 feet. It is in the style of architecture of the old California mission buildings. The exterior is of plain plaster, artificially seamed and cracked, giving it the appearance of the old mission buildings, while recessed entrances give the walls that appearance of depth and solidity characteristic of the old buildings. The south front is a reproduction of the old Mission church at San Diego. The main tower is an exact reproduction

of the San Diego church tower, while the remaining towers on the corners and center of the building are all studied from the mission architecture. The building is not of the clubhouse character of most of the other State buildings. The entire first floor is open and is devoted to the California State display, principally of fruits and canned goods. There are three fountains on the ground floor; one in the center and one at either end. The central hall is surrounded by a wide gallery, and on the gallery floor on the north end of the building is the banquet hall, a kitchen and an assembly-room. In the south end are four servants' rooms, and there is a café in the gallery. The building is severely plain, there being no interior or exterior decorations of any kind. The walls are whitewashed within and without. The central portion of the roof is devoted to a garden 144 feet square, surrounding the central dome. On either side of the main entrances are elevators running to the roof garden. These elevators are a California product, the power being a combination of steam and water. The roof is of California red tile.

COLORADO.

Following are the members of the Colorado State Board of Commissioners: Governor Davis H. Waite, President, Aspen; A. B. McKinley, Vice-President, Denver; O. C. French, Secretary, Denver; Joseph A. Thatcher, Treasurer, Pueblo; B. S. LaGrange, Greeley; Frederick Steinhauer, Denver; Nathan B. Coy, Denver; R. E. Goodell, Leadville; Joseph H. Smith, Denver; H. B. Gillespie, Aspen; W. S. Coburn, Paoma.

National Board Lady Managers: Mrs. L. P. Coleman, Buena Vista; Mrs. M. D. Thatcher, Pueblo. Alternates: Mrs. William Patrick, Leadville; Mrs. Susan R. Ashley, Denver.

National Commission: Roswell E. Goodell, Leadville; J. H. Smith, Denver. Alternates: Henry B. Gillespie, Aspen; O. C. French, New Windsor.

The Colorado Building is in the Spanish renaissance, this style of architecture being considered most suitable for the Southwestern States. It cost \$35,000. The whole exterior of the building is in staff of an ivory color, and in the salient features of the design profusely ornamented, the ornamentation comparing to fine advantage with the broad, plain surfaces of the building. The striking feature of the design is two slender Spanish towers, 98 feet high, rising from either side of the main entrance, on the east. The tower roofs and the broad, overhanging roof of the building are covered with red Spanish tiles. The building is 125 feet long, including the end porticos, with a depth of 45 feet, and 26 feet to the cornice line. The front vestibule opens to the main hall of the building. On either side of the entrance are stairways to the floor above. At the rear of the hall is a large onyx mantel, flanked by glass doors, leading to offices. At the ends of the hall are a men's smoking room and a women's reception room, each opening into an uncovered terrace, surrounded by a balustrade. On the second floor is the assembly room, extending the entire length of the building in the center. This room has a high vaulted ceiling, rising above an ornamented cornice. Over this cornice are rows of electric lights, giving a diffused light, by reflection from the vault above. On the ends of this assembly room are a reading and a writing room, which open to the hanging balconies on the ends of the building, forming one of the most attractive exterior features. Broad, low casement windows open from the assembly rooms to the front and rear balconies, the front one extending between the towers, 24 feet, and over the main entrance. The rear balcony extends along the entire length of the building. Staircases lead to the lanterns in the tower, where a fine view of the grounds is had.

CONNECTICUT.

Following are the members of the Connecticut State Board of Commissioners: Gov. L. B. Morris, President, New Haven; David M. Read, Vice-President, Bridgeport; Eugene S. Boss, Vice-President, Willimantic; J. H. Vaille, Executive Manager, Winsted; Wilbur B. Foster, Secretary, Rockville; George H. Day, Treasurer, New Haven; Edward T. Brown, New London; Clinton B. Davis, Higganum; Rufus E. Holmes, West Winsted; Charles M. Jarvis, East Berlin; Oscar I. Jones, Westport; S. W. Kellogg, Waterbury; Charles S. L. Marlor, Brooklyn; Frank A. Mitchell, Norwich; Thomas R. Pickering, Portland; Milo B. Richardson, Lime Rock; George Sykes, Rockville; George F. Holcombe, New Haven.

State Board of Lady Managers: Mrs. George H. Knight, President, Lakeville; Mrs. Jabez H. Alvord, Winsted; Mrs. P. T. Barnum, Bridgeport; Miss Hattie E. Brainard, Willimantic; Miss Anna H. Chappell, New London; Miss Clementine D. Clark, Higganum; Mrs. Franklin Farrell, Ansonia; Mrs. A. R. Goodrich, Vernon; Mrs. Wealtha A. Hammond, Portland; Mrs. P. H. Ingalls, Hartford; Mrs. Cyril Johnson, Stafford; Miss Edith Jones, Westport; Miss Elizabeth T. Ripley, Norwich; Miss Lucy P. Trowbridge, New Haven; Mrs. E. T. Whitmore, Putnam; Mrs. Morgan G. Bulkeley, Hartford.

National Board Lady Managers: Miss Frances S. Ives, New Haven; Mrs. Isabella Beecher Hooker, Hartford. Alternates: Mrs. Amelia B. Hinman, Stevenson; Mrs. Virginia T. Smith, Hartford.

National Commission: Leverett Brainard, Hartford; Thomas M. Waller, New London. Alternates: Charles F. Brooker, Torrington; Charles R. Baldwin, Waterbury.

The Connecticut State Building is in the Colonial style, being a type of the Connecticut residence, with the addition of circular windows on the north and south, and a circular piazza on the rear. It has a ground area of 72x73 feet, including the piazza, and is two stories high. The exterior is weatherboarded and painted white. The roof contains five dormer windows and is decked on top. The deck is surrounded by a balustrade, and from its center rises a flag-staff. The main entrance is off a square porch, covered by the projecting pediment, which is supported by heavy columns. The interior is finished in Colonial style, with tiled floors, paneled walls and Dutch mantels. The plumbing and carpenters' hardware in the building are in special designs, and are donated as exhibits by Connecticut manufacturers. On the first floor is a reception hall, 21x48 feet, with a light-well in the center. In the rear of the hall is a stairway with a landing half-way up. Flanking the hall are parlors for men and women. The second floor is divided up into living rooms, and will be occupied by the executive World's Fair officer of Connecticut, and his family, during the Fair. The building cost \$15,000.

DELAWARE.

Following are the members of the Delaware State Board of Commissioners: Thomas B. Smith, President, Wilmington; George W. Emery, Vice-President, Seaford; William R. Allaband, Secretary, Dover; R. W. Reynolds, Treasurer, Frederica; Henry C. Conrad, Wilmington; Matthias T. Moore, Laurel; Mrs. Caleb Churchman, Wilmington; Miss Ida Bacon, Laurel; Mrs. Anna E. Hall, Dover; Gov. Robert J. Reynolds.

National Board Lady Managers: Mrs. J. Frank Ball, Wilmington; Mrs. Mary Kinder, Milford. Alternates: Mrs. Thomas F. Armstrong, Newark; Mrs. May Torbert, Milford.

National Commission: George V. Massey, Dover; Willard Hall Porter, Wilmington. Alternates: Charles F. Richards, Georgetown; William Saulsbury, Dover.

The Delaware State Building is constructed wholly of native woods and materials from the State, is 58x60 feet, and is very picturesque, elaborately furnished, and cost \$8,000. One room in the building is finished in Colonial style, with hangings and furniture representing the Colonial days. It is very interesting, there being figures in clay of the old Swedes' church at Wilmington, Barratt's Chapel, and Christ Church. Christ Church was built more than 100 years ago of heart pine. It is without a particle of paint and has the high backed pews, the chancel at one end, the servants' gallery at the opposite end, midway on the east side the lofty pulpit, and immediately below the reading desk, and the clerk's desk. The little State of Delaware was one of the first to show its loyal adherence to the Exposition. The first donation was \$10,000, followed later by a further sum of \$15,000.

FLORIDA.

Following are the members of the Florida State Board of Commissioners: President and Executive Commissioner, Arthur C. Jackson, Jacksonville; Vice-Presidents, Gov. H. L. Mitchell, Ex-Gov. F. P. Fleming, Ex-Gov. W. D. Bloxham, Hon. Joseph Hirst, Hon. Jeff Browne, Hon. J. L. Gaskins; Secretary, Guy I. Metcalf, Dade County; Treasurer, J. T. Talbott, Duval county; Commissioners, E. P. Branch, Brevard county; J. F. Greer, Clay county; J. E. Grady, Franklin county; S. A. Jones, Hillsborough county; C. J. Huelsenkamp, Monroe county; Fred W. Hoyt, Nassau county; M. R. Marks, Orange county; R. E. Rose, Osceola county; J. A. Enslow, Jr., St. Johns county; Solon B. Turman, Superintendent Minerals; W. E. Knibloe, Superintendent Education.



ALTERNATE COMMISSIONERS WORLD'S COLUMBIAN COMMISSION.

- | | | |
|--|--|--|
| 1. WM. E. McLEAN,
<i>Indiana.</i> | 2. CHARLES M. TRAVIS,
<i>Indiana.</i> | 3. DAVID N. COMINGORE,
<i>Kentucky.</i> |
| 6. CHAS. E. ADAMS,
<i>Massachusetts.</i> | 5. GEO. P. LADD,
<i>Massachusetts.</i> | 4. JNO. S. MORRIS,
<i>Kentucky.</i> |
| 7. ERNEST B. FISHER,
<i>Michigan.</i> | 8. LYMAN D. NORRIS,
<i>Michigan.</i> | 9. O. H. FICHER,
<i>Missouri.</i> |
| 12. LORILLARD SPENCER,
<i>Rhode Island.</i> | 11. JEFFREY HAZARD,
<i>Rhode Island.</i> | 10. R. L. McDONALD,
<i>Missouri.</i> |
| 13. E. KURTZ JOHNSON,
<i>District Columbia.</i> | 14. DORSEY CLAGETT,
<i>District Columbia.</i> | 15. W. L. VAN HORN,
<i>Arizona.</i> |



ALTERNATE COMMISSIONERS WORLD'S COLUMBIAN COMMISSION.

- | | | |
|--|---|--|
| 1. G. A. BINGHAM.
<i>North Carolina.</i> | 2. LUCIUS C. CRON,
<i>Ohio.</i> | 3. ADOLPH PLUEMER,
<i>Ohio.</i> |
| 6. LOCK MCDANIEL,
<i>Texas.</i> | 5. W. T. WRIGHT,
<i>Oregon.</i> | 4. J. L. MORROW,
<i>Oregon.</i> |
| 7. HY. B. ANDREWS,
<i>Texas.</i> | 8. ALDACE F. WALKER,
<i>Vermont.</i> | 9. A. J. SIBLEY,
<i>Vermont.</i> |
| 12. JOHN CORCORAN,
<i>West Virginia.</i> | 11. ALEX. McDONALD,
<i>Virginia.</i> | 10. CHAS. A. HEERMANS,
<i>Virginia.</i> |
| 13. WELLINGTON VROOMAN,
<i>West Virginia.</i> | 14. DAVID W. CURTIS,
<i>Wisconsin.</i> | 15. MYRON REED,
<i>Wisconsin.</i> |

National Board Lady Managers: Mrs. Mary C. Bell, Gainesville; Miss E. Nellie Beck, Tampa, Alternates: Mrs. Chloe M. Reed, Jacksonville; Mrs. H. K. Ingram, Jacksonville.
National Commission: C. F. A. Bielby, De Land; Richard Turnbull, Monticello. Alternates: Dudley W. Adams, Tangerine; Jesse T. Bernard, Tallahassee.

A miniature of old Fort Marion, in St. Augustine, has been reproduced in the Florida Building. The fort covers an area of one acre, and is, perhaps, the oldest structure in North America, the most interesting specimen of Spanish supremacy in this country, and the only example of mediæval fortification on the continent. Its erection was begun in 1620, and continued for 100 years. To equip it as a garrison, required 100 guns and 1,000 men. It was never taken by a besieging force. The State Building occupies one-fifth of the space of Fort Marion. It is in the form of a four-bastioned fortress. Including the moat, the site is 155 feet square. The building proper is 137 feet square. The frame is of pine, covered with plaster and coquina shells, in imitation of the original. The interior is divided into parlors for men and women, committee and exhibit rooms, and is furnished in Florida's native woods. The interior court is planted in bamboo, orange, lemon and other tropical trees. The ramparts furnish space for promenades and hanging gardens. In the moat is a sunken garden, where are produced miniature fields of cotton, sugar, rice, tobacco, etc., showing the natural resources of the state. The cost of the structure is \$20,000.

GEORGIA.

National Board Lady Managers: Mrs. William H. Felton, Cartersville; Mrs. Charles H. Olmstead, Savannah. Alternates: Miss Metta T. McLaws, Augusta; Mrs. George W. Lamar, Savannah.

National Commission: Lafayette McLaws, Savannah; Charlton H. Way, Savannah. Alternates: C. C. Sanders, Savannah; John W. Clark, Augusta.

The Georgia Legislature failed to make an appropriation, consequently that State has no building nor Board of State Commissioners.

IDAHO.

Following are the members of the Idaho State Board of Commissioners: James M. Wells, Executive Commissioner, Boise City; Alliene Case, Assistant Commissioner; C. M. Sain, Secretary, Boise City. Commissioners by counties: Ada County: Mrs. T. E. Logan, Boise City; A. T. Thomas, Boise City. Alturas County: John Worswick, Smoky; Arthur Smith, Hailey; Mrs. E. B. True, Hailey; I. I. Lewis, Ketchum. Bannock County: Mrs. J. M. Bennett. Dear Lake County: Hon. J. L. Underwood, Montpelier; Mrs. M. J. Whitman, Montpelier; Walter Hoge, Paris. Bingham County: E. P. Henry, Idaho Falls; F. M. Morrill, Soda Springs; Mrs. Carrie Eastman, Soda Springs; Mrs. E. E. Calvin, Pocatello; Mrs. E. E. Givens, Blackfoot. Boise County: G. Watts, Idaho City; Mrs. D. E. Coughanour, Quartzburg. Canon County: A. E. Gipson. Cassia County: A. B. Roberts, Albion; Mrs. E. J. Stokes, Albion. Custer County: C. C. Clawson, Bonanza; Mrs. C. C. Clawson, Bonanza. Elmore County: Mrs. M. J. Bearby, Mountain Home; C. C. Glenn, Glenn's Ferry. Idaho County: Dr. S. E. Biby, Grangeville; Miss Maggie Robinson, Grangeville. Kootenai County: Jay Rand Sanburn, Coeur d'Alene City; Monroe Daggett, St. Maries; S. B. Wright, Bonner's Ferry; Mrs. G. A. Manning, Post Falls; Miss Jessie M. Kanouse, Rathdrum; H. M. Jorgens, Hope; Mrs. Emma J. Clarke. Latah County: Mrs. J. H. Forney, Moscow; Thos. Kirby, Kendrick. Lemhi County: Mrs. Ada Morrill, Salmon City. Logan County: Captain J. A. Lusk, Bellevue; Captain A. S. Senter, Shoshone; Mrs. W. H. Broadhead. Nez Perce County: M. J. Wessels, Lewiston; Miss Sadie E. Poe, Lewiston. Oneida County: Wm. B. Thews, Malad City. Owyhee County: E. H. Dewey, Silver City. Shoshone County: Robert Neill, Wallace; Dr. A. O. Ingalls, Murray. Miss Nellie Smith, Kingston; W. F. Mann, Wallace. Washington County: V. D. Hannah, Weiser; Levi Allen, Salubria; Mrs. Olivia Allen, Salubria.

National Board Lady Managers: Mrs. Anna E. M. Farnum, Hauser Junction; Mrs. J. C. Straughan, Boise City. Alternates: Mrs. Louise L. Barton, Moscow; Mrs. Ella R. Miller, Blackfoot.

National Commission: George A. Manning, Post Falls; John E. Stearns, Nampa. Alternates: A. J. Crook, Hailey; John M. Burke, Wardner.

The territory embraced within the limits of the young State of Idaho, though traversed by many beautiful and fertile valleys, is in the main a mountainous region, its mean elevation being about 4,700 feet. In fact, from the beauty and grandeur of its mountain scenery it was named, quite appropriately, Idaho, "The Gem of the Mountains." Its numerous streams are bordered by dense forests of valuable timber, and the developments of recent years have discovered

that its mountains are rich in precious metals. Though the State has made rapid strides in recent years in the matter of general improvement, the log cabin of the pioneer is still a familiar scene, and the forests and hills still abound in wild game. In designing and decorating Idaho's building for the World's Columbian Exposition, an effort was made to give some expression to the characteristics above referred to, to exemplify in a measure some of the chief products of the State, and to suggest some of its interesting features. All of the materials used in the construction of the building are products of Idaho, and nearly all of the decorations were there obtained. The general style of architecture is Swiss, modified in so far as was necessary to adapt it to the materials to be used in the construction and to illustrate local conditions. The building, the foundation of which is of basaltic rock and lava, is a three-story log cabin made of stripped cedar logs, stained to the appearance of weather-beaten age. It is generously supplied with Swiss balconies averaging ten feet in width, which extend around three sides of the structure on the second floor, and across the front and rear of the third floor. The roof extends on all sides ten feet beyond the building line, and is covered with shakes held in place by rocks, while the chimneys are large and roughly stuccoed to imitate in appearance the chimneys of real pioneer days. The outside dimensions of the building, including balconies and roof, are 70x90; the foundation, 53x93. One enters the building through a stone arch, into a passage way, 10x35, leading to a large central hall, 16x34, at the end of which is a stone fire-place with log mantel. The remainder of this floor is divided into two offices, 14x16, two sleeping apartments, 15x16, and two toilet rooms, 22x26. From the central hall one proceeds by a stairway, on either side of the fire-place, to the upper hall, 18x48½, opening into which, from the front, is the women's reception room, 24x48½, representing a miner's cabin, the fire-place of which is made of metaliferous rock, and the andirons, door latches, etc., are made in imitation of miner's tools. At the rear of the hall is the men's reception room, 27x48½, a hunter's and trapper's cabin, the fire-place of which is of Idaho lava, the andirons made of bear traps and fish spears, the other hardware therein representing Indian weapons, arrows, etc. The entire third floor is one large hall, 48½x50½, intended for special receptions, and contains such articles as ornament the room as well as represent interesting features of the State. The cost of the building is \$30,000.

ILLINOIS.

Following are the members of the Illinois State Board of Commissioners: La Fayette Funk, President, Shirley; David Gore, Vice-President, Carlinville; Wilson C. Garrard, Secretary Chicago; John W. Bunn, Treasurer, Springfield; John P. Reynolds, Director-in-Chief, Chicago; Daniel H. Paddock, Attorney, Kankakee; J. Irving Pearce, Chicago; J. Harley Bradley, Chicago; Wm. Stewart, Chicago; Byron F. Wyman, Sycamore; A. B. Hostetter, Mt. Carroll; Samuel Dysart, Franklin Grove; W. D. Stryker, Plainfield; John Virgin, Fairbury; D. W. Vittum, Canton; E. B. David, Aledo; W. H. Fulkerson, Jerseyville; J. W. Judy, Tallula; S. W. Johns, Decatur; E. E. Chester, Champaign; James K. Dickirson, Lawrenceville; Edward C. Pace, Ashley; B. Pullen, Centralia; J. M. Washburn, Marion.

Illinois Woman's Exposition Board: Mrs. Marcia Louise Gould, President, Moline; Mrs. Robert H. Wiles, Vice-President, Freeport; Miss Mary Callahan, Secretary, Robinson; Mrs. Richard J. Oglesby, Elkhart; Mrs. Francis L. Gilbert, Chicago; Mrs. Francine E. Patton, Springfield; Mrs. Isabella Laning Candee, Cairo; Mrs. Frances Welles Shepard, Chicago.

Residents of the city of Chicago appointed by President of the World's Columbian Commission: Mrs. Bertha M. Honroe Palmer, Lake Shore Drive; Mrs. Solomon Thatcher, Jr., River Forest; Mrs. James A. Mulligan, 190 Pine street; Frances Dickinson, M. D., 70 State street; Miss Sarah T. Hollowell, Palmer House; Mrs. George L. Dunlap, 328 Dearborn avenue; Mrs. L. Brace Shattuck, 5300 Woodlawn avenue; Mrs. Annie C. Meyers, Great Northern Hotel; Mrs. M. R. M. Wallace, 3817 Michigan avenue; Mrs. Myra Bradwell, 1428 Michigan avenue; Mrs. James R. Doolittle, Jr., 24 Groveland Park; Mrs. Matilda B. Carse, 145 Ashland boulevard; Martha H. Ten Eyck, 5704 Madison avenue; Mrs. Margaret Isabelle Sandes, Ravenswood, Ill.; Mrs. Leander Stone, 3352 Indiana avenue; Mrs. Genl A. L. Chetlain, 543 No. State street; Frances E. Willard, Evanston, Ill.

National Board Lady Managers: Mrs. Richard J. Oglesby, Elkhart; Mrs. Frances W. Shepard, Chicago. Alternates—Mrs. Marcia Louise Gould, Moline; Mrs. I. L. Candee, Cairo.

National Commission: Charles H. Deere, Moline; Adlai T. Ewing, Chicago. Alternates: La Fayette Funk, Shirley; De Witt Smith, Springfield.



ALTERNATE COMMISSIONERS WORLD'S COLUMBIAN COMMISSION.

1. LA FAYETTE FUNK,
Illinois.
6. P. J. McMAHON,
Louisiana.
7. GEORGE M. UPSHUR,
Maryland.
12. JOSEPH H. BRINKER,
Mississippi.
13. ENOCH STROTHER,
Nevada.

2. DE WITT SMITH,
Illinois.
5. ALPHONSE LE DUC,
Louisiana.
8. DANIEL E. CONKLING,
Maryland.
11. FRED W. COLLINS,
Mississippi.
14. RICHARD RYLAND,
Nevada.

3. M. D. HENRY,
Kansas.
- * 4. S. H. LANYON,
Kansas.
9. THOMAS C. KURTZ,
Minnesota.
10. MURET N. LELAND,
Minnesota.
15. H. C. CARTER,
North Carolina.



LADY MANAGERS, RESIDENTS OF GHICAGO.

- | | |
|-------------------------------|---------------------------------|
| 1. MRS. POTTER PALMER. | 2. MRS. SOLOMON THATCHER, JR. |
| 3. MRS. JAMES A. MULLIGAN. | 4. FRANCIS DICKINSON, M. D. |
| 6. MRS. MYRA BRADWELL. | 7. MRS. JAMES R. DOOLITTLE, JR. |
| 9. MARTHA H. TEN EYCK. | 10. MRS. MARGARET I. SANDERS. |
| 12. MRS. GEN. A. L. CHETLAIN. | 13. FRANCES E. WILLARD. |
| | 5. MRS. M. R. M. WALLACE. |
| | 8. MRS. MATILDA B. CARSE. |
| | 11. MRS. LEANDER STONE. |

By far the most pretentious of the structures erected by the several States of the Union stands the Illinois State Building. Being in a sense the host at the Exposition, it was deemed not only proper but requisite that Illinois should make such appropriation and provide such a building as would enable her to perform creditably the duties of that office. The State appropriated \$800,000 and the building cost \$250,000.

Situated on a high terrace, in one of the most favored spots in Jackson Park, the Illinois Building commands, for nearly a mile to the southward, a view of the beautiful waterway which encircles the great island. The building in the main is 160 feet wide by 450 feet long. On the north, Memorial Hall forms a wing 50 by 75 feet, and on the south another wing, 75 by 123 feet and three stories high, accommodates the executive officers, and in the third story two public halls. The side walls are 47 feet high, while the south wing is 72 feet and the ends 54 feet. Surmounting the building at the center a fine dome, 72 feet in diameter, rises to a height of 235 feet. The building is constructed almost wholly of Illinois material—wood, stone, brick and steel—and is covered with staff artistically treated. The grand entrance faces the waterway to the south, while at the west and north ends are others scarcely less imposing. In front of the entrances are beautiful terraces with balustrades, statues, fountains, flowers, and stone steps leading down to the roadways and lagoon landings. The building is embellished with fine carving and statuary. It is thoroughly lighted, first from the side windows, which are placed about fourteen feet above the floor to permit cases to be placed against the walls; second, with skylights placed in the flat roof of the side aisles; and third, with continuous skylights on the ridge of a pitched roof or nave. Ventilation is provided for through windows placed a story above the flat aisle roof and the foot of the sloping roof over the nave. The interior of the structure is appropriately and beautifully ornamented. Memorial Hall, which is fireproof, has a gallery encircling it, and contains a large and interesting collection of relics and trophies of the war and other periods—all owned by the State. There are also spacious galleries from which an excellent survey of the main exhibit hall may be taken. One feature of the Illinois Building which is sure to attract much attention, consists of five model common-school rooms, of high grade, fully equipped and furnished, under the direction of the State Superintendent of Public Instruction. Here may be seen an illustration of the methods and results of educational work as pursued in the normal universities, the public, technical and art schools, and the high schools of the State; an exhibit by the University of Illinois of the equipment, methods of instruction and achievements of that institution in its several departments, and an exhibit of the educational and industrial work as conducted in the State charitable institutions. There are no competitive exhibits in the Illinois Building. These are distributed in their proper places in the several Exposition structures. The Illinois Building contains a "collective departmental exhibit for the State, which shall illustrate its natural resources, together with the methods employed and results accomplished by the State in its municipal capacity through its several departments, boards, commissions, bureaus and other agencies in the work of promoting the moral, educational and material welfare of its inhabitants so far as such methods and results are susceptible of exhibition." There are also collections; correctly classified and labeled, illustrating the natural history and archæology of the State; an exhibition by the State Fish Commission of native and cultivated live fish, with hatchery and appliances and equipments for transportation, models of fishways in use; a special collection of the cultivated products in the several branches of agriculture, architectural drawings (with elevations) of every public building erected and now used or maintained in whole or in part by the State; also maps, charts, diagrams and tables conveying full and accurate information relative to Illinois and its resources. The topographical maps of the State are sure to claim much attention. To the women of Illinois was granted \$80,000, or one tenth of the entire appropriation, and also one-tenth

of the space in the building. The visitor will doubtless be intensely interested in observing how creditably the women of the State have improved the exceptional opportunity thus afforded them.

Nearly the entire State exhibit is confined to the Illinois Building. Excepting agriculture and floriculture, the exhibit is not represented in the various departments, except where private showings are made. It is the only State which follows the example of the Federal Government.

The east wing of the building is occupied by the Illinois Board of Lady Managers, the north wing is used as a memorial hall and the rest of the structure is devoted to the State exhibit. This is a collective departmental exhibit illustrating the natural resources of the State with the method employed and the results accomplished by every branch of the State government.

A prominent place is given to educational methods, and it may not be out of place here to say that Illinois votes more money for the purposes of education than any other State in the Union. Visitors to the Exposition will see illustrated just how this money is expended. The State Blind Asylum at Jacksonville maintains a permanent exhibit. There are twelve pupils always at work in the building, each one at a different occupation, to illustrate the variety of branches taught. An expert type-writer from the school, operates a machine, and it is just the same as in common use, without raised letters. Some of the most rapid operators in the country are blind and educated by the State.

Under the direction of Dr. Raab, State Superintendent of Public Instruction, one room is fitted up as a model school-room of the high grade. As an illustration of the methods and results of educational work of the State the department shows by models the comparison between the smallest school in the rural districts and the city school of the highest grade and by comparison the progress made in the forty-one years of statehood. One of the galleries is given up to books and charts showing the progress of the work and the number of children taught each year. This is also done with the two normal schools of the State. The State is proud of the University of Illinois, and this institution has been given a very large share of the educational space. It has in all twelve departments, and the work in each is shown. Particular attention is paid to the departments of civil and electrical engineering and the tools used in each. The achievements of the university are shown by charts, and architectural plans explaining the proposed work are exhibited. From the experiment station which the State maintains in conjunction with the Federal Department of Agriculture was sent the results of the various trials which have been successful and those which have failed. The idea of sending the failures is that they may act as an educational exhibit for the benefit of those interested in the science of agriculture as well as to show wherein it has failed and invite conference as to the probable cause of the failure.

The agricultural exhibit of the State is very large, for this is one of the banner agricultural States of the Union. Illinois, with the exception of California, is the largest State in the Union running north and south. California has an equable climate, while Illinois, being mid-continental and subject to no influence by large bodies of water, is subject to all the winds that blow, from a semi-tropical breeze at Cairo to a semi-arctic blizzard at Chicago. This naturally gives the State a much larger variety of climate than many others. The exhibit of these resources showing the widely different conditions of the State are classified into agriculture, horticulture and floriculture. Each department has a full and complete exhibit and it starts in with the earliest products at the extreme south. As the season advances the commissioners will place on tables the largest products of the two, the farm and the flower garden. These will be renewed every week so that the exhibits will always have a fresh look and on that account be more attractive.

This State fixes the standard of grain for the world and under the direction of the State Grain Inspection Department the Commissioners illustrate the entire

system of inspecting grain as established by the Railroad and Warehouse commission. Samples of all the known standards are given.

The natural history and archæological display is very extensive and complete. It includes the State's stratigraphical and economic geology. Large glass cases are filled with its soil and subsoil taken from different localities, as well as the useful clays and ores and all products of the mines and quarries. This, in company with illustrations of the State's botany and zoology, occupy a large pavilion in the west wing opposite the forestry section. On first thought many people may think that Illinois has no forestry, but that is an error. The prairies which are so productive in the growth of grain also grow trees, and arboriculture has become a strong industry. A rustic pavilion has been made of all the different woods grown in the State, and the specimens furnishing material for the pavilion have been selected specially with a view to the exhibit feature of its construction. Inside the pavilion are finished samples, showing the varied uses to which the woods of the State are put, and the collective display will surprise the people who imagine the soil of the State will raise nothing but corn-stalks. When it comes to corn-stalks, though, Illinois is somewhere very near the head of the procession. In the northwest corner of the building is a pavilion built of stalks. The uprights were grown in a cornfield and the very roof is a thatch of stalks. All the decoration is typical, from the silky tassels that serve for frieze and dado, to the corn in the ear, arranged in fantastic designs and color combinations. The smallest pop-corn nubbin and the biggest ear of river bottom corn are in the aggregation.

The State Fisheries Department is also well represented. The commissioners show in four large tanks all the native and propagated fish alive, together with the hatcheries system and the appliances used in transportation.

In the very center of the building is the great relief map of the State cast in plaster of Paris. It is made on a scale of two miles to the horizontal inch and 500 feet to the vertical inch. That gives it a length of seventeen feet, width nine feet. It has taken fourteen engineers nearly a year to prepare the drawings, but it is of great value because of its topographical accuracy. Among other things the new map shows that the best map in existence before this was begun had 1,382 errors and discrepancies.

The north wing of the building is used as a memorial hall. All of the relics of the State are shown there, including the flags carried by the State soldiers during the late Civil War.

Of the original appropriation of \$800,000 of the State to meet the expenses of the exhibits and building, the Woman's Board got \$80,000. They occupy the east wing of the building and display a great variety of things from the model farm of the State, which is owned and operated by a woman, to industrial and art works. The women of the State have responded promptly to the call for specimens of this work of every nature, and the rooms are filled with paintings, relics and the manufactured products.

From the exhibit made by the Illinois Women's Board three objects have been attained: First, the board shows to the world samples of the work done by the women of Illinois; second, Illinois women see the best methods and results in all the common and everyday duties of life; and, third, the exhibit familiarizes the women of the State with the new avenues of activity and the broadening opportunities for self-advancement and self-support opened to them.

In order to accomplish this great task efficiently the board was organized with Mrs. Gould as president, Mrs. Robert W. Wiles, of Freeport, as vice-president, and Miss Mary Callahan, of Robioson, as secretary. The work was subdivided and attended to by the following committees:

Committee on Literature, including books, newspapers and magazines, Mrs. Francis L. Gilbert, of Chicago, Chairman.

Historical and Scientific Collections, Miss Callahan, Chairman.

Decorative Art, including ceramics, wood-carving, plain and ornamental needle work, Mrs. H. H. Candee, of Cairo, Chairman.

Fine Art, including sculpture, oil and water colors, etchings and pastels, Mrs. Henry M. Shepard, of Chicago, Chairman.

Domestic Science, including pantry stores, model kitchen and dining-room, Mrs. Richard J. Oglesby, of Elkhart, Chairman.

Practical Arts, including inventions, designs and manufactures, Mrs. Wiles, Chairman.

Educational, Charitable, and Professional Work, Mrs. Francione E. Patton, of Springfield, Chairman.

Music and Dramatic Art, Mrs. Gould, Chairman.

Clubs were formed in every county in the State, which had the effect of arousing enthusiasm in the State exhibit. The part of the Illinois Building assigned to women has been handsomely decorated by paintings, plastic reliefs, etc., by several of the accomplished women artists of the State. The artists assisting were:

Miss Caroline D. Wade, Mrs. Marie³ K. Lusk, Miss Helen B. Gregory, Miss Alice D. Kellogg, Miss Pauline A. Dohn, Miss Anna W. Jones, Mrs. Mary F. Means and Miss D. Gerow.

In the library has been placed the volumes written by Illinois women. Names of more than 150 Illinois authors appear in the collection.

The Historical and Scientific Committee makes an exhibit contrasting the work and manner of life of the women in the first years of the State's existence with that of the present, and shows the advance made. This is done by means of relics of different kinds, articles worn in early times, books and pictures. Kaskaskia, the oldest town in the Mississippi valley and first capital of the State, was rich in relics to any one who would seek for them in old garrets or warehouses. Many articles which have been preserved with care were, through the earnest solicitation of Miss Callahan, secretary of the committee, finally secured for the Illinois exhibit. They had been sought for the Centennial and New Orleans and Paris expositions, but never before have they been exhibited. One of the oldest and most interesting relics is the bell taken from the church of the old Catholic mission. It still hangs in the church tower, but is never used. The mission was established by Father Marquette, who preached the first sermon to the Indians. In 1782 Father Gravier built the first church. The interior of the present church is that old mission structure, made modern by improvements, but still left intact. The silver service, bell, vestments and pictures were presented by the King of France, Louis XIV. The bell is inscribed: "To the Church of Illinois." On the opposite surface is the cross. The old hotel in which Lafayette was banqueted still stands, and one part of it is used as a dwelling. From the room used as the banquet hall in 1825 a carved ebony mantel has been taken out and placed in the exhibit, with the brass andirons that were used in the fireplace; also several pieces of china from the same house. Portraits of the first executive and his wife, Governor and Mrs. Bond, are in the collection, which are loaned by their grandson; the old family Bible, a silver ladle, and a silver urn made from coin given by the soldiers from old Fort Vincennes to the servants for milk, butter and eggs. The house is entirely gone, and where it stood now flow the waters of the Kaskaskia. The grandson of old Pierre Minard, who was first lieutenant-governor, made a valuable loan. The old gentleman lived in princely style. All the furniture of his mansion was bought in France. In the collection is a cherry table, a mahogany bureau with swell front and plain columns, and a pier glass from the carved ebony mantel. A picture of the house in which the first legislature was held will be shown. It was the first brick house in the Mississippi valley, and the bricks were brought from Pittsburg on flatboats down the Ohio and up the Mississippi. Sangamon county sends many interesting things from the Lincoln home. Among them is the table cloth used at the wedding breakfast of Lincoln, and now preserved by a niece of Mrs. Lincoln. Also the ball dresses worn by Mrs. Lincoln at the first and second inaugural balls. Jo Daviess county sends the saddle in which Grant rode during the war, and the lantern he carried with his equipments.

In the scientific department Miss Nettie Ayers, who is assistant in the University of Illinois at Champaign and the only woman bacteriologist, has a work-



ALTERNATE COMMISSIONERS WORLD'S COLUMBIAN COMMISSION.

- | | | |
|--|--|--|
| 1. TIMOTHY E. COLLINS,
<i>Montana.</i> | 2. WM. S. HALL,
<i>Alabama.</i> | 3. JOS. W. McNEAL,
<i>Oklahoma.</i> |
| 6. RUSH STRONG,
<i>Tennessee.</i> | 5. S. A. RAMSAY,
<i>South Dakota.</i> | 4. JAS. ROOSEVELT,
<i>New York.</i> |
| 7. WM. L. MAY,
<i>Nebraska.</i> | 8. JNO. LAUTERBACH,
<i>Nebraska.</i> | 9. JAS. H. BRESLIN,
<i>New York.</i> |
| 12. ASA S. MERCER,
<i>Wyoming.</i> | 11. CHAS. B. EDDY,
<i>New Mexico.</i> | 10. GEO. A. MACBETH,
<i>Pennsylvania.</i> |
| 13. JOHN K. HALLOCK,
<i>Pennsylvania.</i> | 14. LOUIS C. FETERD,
<i>New Mexico.</i> | 15. DUDLEY W. ADAMS,
<i>Florida.</i> |



ALTERNATE COMMISSIONERS WORLD'S COLUMBIAN COMMISSION.

- | | | |
|---|--|---|
| 1. CHARLES CRANE,
<i>Utah.</i> | 2. CLARENCE B. BAGLEY,
<i>Washington.</i> | 3. JOHN J. McCORMICK,
<i>Wyoming.</i> |
| 6. GEO. F. CUMMIN,
<i>Washington</i> | 5. CHAS. F. BROOKER,
<i>Connecticut.</i> | 4. FRANK E. KALEY,
<i>New Hampshire.</i> |
| 7. JOHN W. CLARK,
<i>Georgia.</i> | 8. J. M. TINDAL,
<i>South Carolina.</i> | 9. H. H. LOGAN,
<i>Arizona.</i> |
| 12. RUSS D. STEPHENS,
<i>California.</i> | 11. JOHN HAYES,
<i>Iowa.</i> | 10. CLARK S. EDWARDS,
<i>Maine.</i> |
| 13. FRED'K S. FISH,
<i>New Jersey.</i> | 14. WM. M. FERRY,
<i>Utah.</i> | 15. CHAS. H. STANLEY,
<i>North Dakota.</i> |

ing exhibit. She will separate the microbes from water and vegetables, and show the practical working of this department.

Six statues in staff have been placed on the wall space between the lofty windows in the main exhibit gallery. The statues are eight feet in height, representing heroic size, and illustrate Faith, Justice, Maternity, Art, Charity and Literature. The six women sculptors who did this work are, Mrs. Ellen Copp, Miss Taft, Miss Bessie O. Potter, Miss Caroline Brooks, Miss Scudder and Miss Biacken.

A kindergarten department will be conducted in the large room at the east end of the building, and the management has been placed in the hands of the Chicago Froebel and Free associations. The plan arranges for a kindergarten to be conducted during the six months of the Exposition as a part both of the educational exhibit and the women's exhibit of the State of Illinois in the State Building. The class will number fifty children, to be cared for by a director and two paid assistants. The daily session will occupy the morning hours. Some person competent to answer questions relative to the philosophy of the kindergarten will be present both during and after the session. Further instruction will be furnished by an afternoon course of talks or lectures.

Other departments of interest in which many women are engaged have exhibits, such as the work of women farmers; an exhibit of designing; specimens of wall-paper, textile fabrics, stained glass, embossed leather executed by women. Beside these two hundred and eighty-four patents have been issued to Illinois women. A complete set of copies of all these patents, together with models of as many of them as are given inventors, are shown in the exhibit.

The fish exhibit of the State is also made in the Illinois Building, the collection comprising about one hundred and thirty-nine species of fish. They are all suspended by a silken cord in glass jars of alcohol. The collections of darter and minnows is very interesting and they range in size, full grown, from one inch to six inches, comprising about thirty-two species. There are eleven species of cat-fish, including four species of stone-cats. One species, the gambusia, brings forth its young alive. This fish is found in the southern portion of the State. An odd looking specimen is the mufflejaw. It has a thick, knotty looking head and puffed-up jaws. This fish attains the length of five inches. It is found principally in the southern part of the State. The spoon-bill or shovel-cat has a broad, flat upper mandible which projects forward about the length of the rest of its body. This species is found in the lakes and large rivers.

INDIANA.

Following are the members of the Indiana State Board of Commissioners: Gov. Claude Mathews, Indianapolis; Clem. Studebaker, President, South Bend; Charles B. Stuart, Vice-President, La Fayette; William B. Roberts, Secretary, Indianapolis; Fred J. Hayden, Treasurer, Fort Wayne; B. F. Havens, Executive Commissioner, Terre Haute; Robert Mitchell-Princeton; Philip W. Frey, Evansville; Joseph Wilson, Washington; Royal E. Purcell, Vincennes; Jaspar Packard, New Albany; Sidney Conger, Flat Rock; Cortez Ewing, Greensburg; Edward Hawkins, Indianapolis; Daniel H. Davis, Knightsville; John G. Dunbar, Greencastle; D. J. Mendenhall, Westfield; J. V. Sweetser, Marion; J. M. Westcott, Richmond; Thomas Hart, Muncie; W. N. Hailman, La Porte; B. F. Louthain, Logansport; J. B. White, Fort Wayne; John L. Campbell, Crawfordsville; John B. Conner, Indianapolis; V. K. Officer, Volga; S. S. Gorby, Indianapolis; W. A. Peele, Jr., Indianapolis; Mrs. May Wright Sewell, Indianapolis; Mrs. S. S. Harrell, Brookville; Mrs. Laura D. Worley, Ellettsville; Mrs. E. P. Hammond, Rensselaer.

National Board Lady Managers: Miss Wilhelmine Reitz, Evansville; Mrs. Virginia C. Meredith, Cambridge City. Alternates: Miss Susan W. Ball, Terre Haute; Miss Mary H. Krout, Crawfordsville.

National Commission: Thomas E. Garvin, Evansville; Elijah B. Martindale, Indianapolis. Alternates: William E. McLean, Terre Haute; Charles M. Travis, Crawfordsville.

The Indiana Building is one of the most attractive, convenient and comfortable of all the State buildings. In the matter of space, Indiana has secured good sized sections in all the main buildings. The State building is situated north of the Woman's building and next to the building of Wisconsin. From the western veranda the hoosier visitors may enjoy a beautiful view of the

wooded islands, the lagoon, the Illinois Building and nearly all the main structures. It is French Gothic in design with cathedral windows, turrets and towers. Two large towers with spires, one at either side raising above the roof of the extreme point, are about 150 feet from the ground. The dimensions, including a veranda 20 feet wide with two floors extending entirely around the building, are 53x152 feet; height three stories and general appearance very massive. The towers are constructed of Colitic limestone brought from the Indiana quarries. The building is covered with staff. The entrance steps, balustrades and doorways are of handsome carved patterns of stone and make a fine display. The lower story floor is encaustic tile of handsome pattern. Broad carved oak stairways lead from the lower floor into the towers of the building. The entire finish and the doors are of native quartered oak, carved and highly polished. On the first and second floors a wide hall extends through from one tower to the other, separating the office, parlors, reception and toilet rooms from the assembly room on the first floor, and the reading and writing room on the second floor, from the ladies' parlors, reception and toilet rooms in the north part of the building. On the ground floor is a parlor for women, with check and toilet rooms; a parlor for men, with check and toilet rooms. The assembly room on the lower floor is in the form of a half circle, or an immense bay window, and is used for the general reception room. On the second floor is a reading and writing room for the use of the general public, the women's private office and reception room, the office of the president, the State board and the executive commissioner. On the third story, over the main assembly room, is a large room suitable for a lunch room.

The building cost \$75,000. The State paid upon it about \$50,000. The balance was raised by contributions throughout the State in the way of material in construction and was solicited and obtained through the efforts of executive commissioner Havens. Chicago parties have been quite liberal in this matter and have donated material to the amount of \$2,500. The balance of the contributions were raised in the State of Indiana.

IOWA.

Following are the members of the Iowa State Board of Commissioners: President, James O. Crosby, Garnaville; Vice-President, John F. Duncombe, Fort Dodge; Treasurer, Wm. Hamilton Dent, Le Mars; Secretary, F. N. Chase, Cedar Falls. Executive Committee: S. H. Mallory, Chariton; S. B. Packard, Marshalltown; H. W. Seaman, Clinton; Henry Stivers, Des Moines; Charles Ashton, Guthrie Center; J. W. Jarnagin, Montezuma; A. C. Roberts, Fort Madison.

State Board of Lady Managers: President, Miss Ora E. Miller, Cedar Rapids; Vice-President, Mrs. N. C. Deering, Osage; Secretary, Mrs. Eliza G. Rhodes, Mount Pleasant; Treasurer, Miss Mary B. Hancock, Dubuque; Mrs. Flora J. McAchran, Bloomfield; Mrs. Whiting S. Clark, Des Moines; Mrs. Orry H. Salts, Corning; Mrs. L. O. Ferson, Council Bluffs; Mrs. John F. Duncombe, Fort Dodge; Mrs. A. M. Ainsworth, Onawa; Mrs. Ellen K. Cook, Davenport.

National Board Lady Managers: Mrs. Whiting S. Clark, Des Moines; Miss Ora E. Miller, Cedar Rapids. Alternates: Mrs. Ira F. Hendricks, Council Bluffs; Miss Mary B. Hancock, Dubuque.

National Commission: W. F. King, Mt. Vernon; Joseph Eibæck, Des Moines. Alternates: John Hayes, Red Oak; Charles E. Whiting, Whiting.

The Iowa Building is undoubtedly one of the handsomest of the state buildings, and the decorations of the ceiling and walls of the main hall in corn and grasses is one of the most unique and attractive pieces of art work on the grounds. Scenes emblematic of agricultural, pastoral, mining and other pursuits are faithfully portrayed and are similar to those shown in the famous Corn Palace exhibitions in Sioux City. The structure is on the west side of the "Jackson Park Shelter" which belongs to the Park Commissioners, and serves as a receptacle for the State exhibit. The Iowa Building is 60x100 feet in size and two stories high. It is in wood and staff, with towers and roof corresponding to the "Shelter," so that the two structures combine harmoniously after the style of a French chateau, forming a very picturesque effect. On the first floor are found reception rooms for men and women, commissioners' offices, committee rooms

postoffice, writing and baggage rooms. On the second floor are the assembly hall, photographic exhibit, reading and reporters' rooms. The building cost \$35,000.

KANSAS.

Following are the members of the Kansas State Board of Commissioners; M. W. Cobun, President, Great Bend; L. P. King, Vice-President, Tannehill; Mrs. A. M. Clark, Secretary, Mankato; T. J. Anderson, Treasurer, Topeka; Geo. W. Glick, Atchison; A. P. Collins, Salina; H. H. Kern, Bonner Springs.

National Board Lady Managers: Mrs. Jennie S. Mitchell, Topeka; Mrs. Hester A. Hanback, Topeka. Alternates: Mrs. Sara Blair Lynch, Leavenworth; Mrs. Jane H. Haynes, Fort Scott.

National Commission: Charles K. Holiday, Jr., Topeka; J. R. Burton, Abilene. Alternates: M. D. Henry, Independence; S. H. Lanyon, Pittsburg.

The ground plan of the Kansas Building is irregular. It approaches a square, one side being straight, and the other three forming irregular angles. It has a ground area of 135x138 feet. It is two stories high, built of frame and staff, and is surmounted by an elliptical glass dome. The main exhibition hall occupies nearly all of the first floor, and extends through to the glass dome. A balcony, from the second story, overhangs the main entrance on the south, and a second balcony extends around the base of the dome. The north end of the main floor is occupied by a natural history collection. There are also offices for the boards of commissioners on the first floor. Four flights of stairs lead to the second floor, where are rooms for the women's exhibits, a school exhibit, and parlors for the men and women. The building cost \$25,000.

KENTUCKY.

Following are the members of the Kentucky State Board of Commissioners: W. H. Dulaney, President, Louisville; John W. Yerkes, Secretary, Danville; John D. Clardy, Newstead; James D. Black, Barbourville; A. D. James, Penrod; William R. Smith, Lexington; Zephania Meek, Catlettsburg; Mrs. Sue P. Brown, Owensboro; Miss Ida E. Symmes, Louisville; Miss Lucy Lee Hill, Lexington.

National Board Lady Managers: Miss Jean W. Faulkner, Lancaster; Mrs. A. C. Jackson, Covington. Alternates: Mrs. Sarah F. Holt, Frankfort; Mrs. Alice B. Castleman, Louisville.

National Commission: John Bennett, Richmond; Harvey Myers, Covington. Alternates: David N. Comingore, Covington; John S. Morris, Louisville.

The Kentucky State Building is typical of the Southern Colonial style, as distinguished from the New England, and suggests the better class of old Kentucky homesteads. The size of the building, exclusive of porches, is 75x90 feet, and in the center of the principal façade, under the covered porch, is the main entrance. To the left-hand side of the entrance, communicating with the lobby, is the parcel and check room and postoffice, while directly opposite is the office of the secretary, in connection with which is a smaller room used as an information bureau. The lobby opens on the great hall 35x40 feet in size, at the end of which is a wide stairway leading up to the second-story gallery. Under the wide platform in the center of the hall is the entrance to the dining-room. This platform is located midway between the two stories, and the greater part of this hall extends to the roof, with galleries around the second-story overlooking the first. On the left-hand side of the hall in a recess is placed the great hall fireplace. The mantel is 14 feet wide and the fireplace opening itself 8 feet, where great yule logs may be burnt. The ladies' parlors are on the left hand side of the building opening into the reception hall. The principal parlor is 20x36 feet, and communicates with the check-room and postoffice. On the right-hand side of the hall opposite the ladies' quarters are the gentlemen's parlors, the same size as the ladies' parlors, with a smoking room attached. Adjoining the main hall and smoking-room is a side entrance hall, upon which the men's toilet room opens. The dining hall is 20x40 feet, abundantly lighted and with a deeply recessed alcove for the fireplace, immediately opposite the entrance to the hall. This dining-room communicates with the necessary serving-rooms, store-room, kitchen and servants' bed-rooms. The second floor is a gallery 8 feet wide, around three sides of the open light-well, which extends from the first floor to

the top of the building, where it is roofed over with an obscured glass ceiling or sky-light. Extending across the entire front of the building, and opening on the wide gallery, are arranged three exhibition rooms, two of which are 20x27 feet, and the third 20x23 feet. On the right hand side, on this floor, is the commissioners' room communicating with the main gallery, and also a private hall and stairway leading to the first floor. With this hall are connected two sleeping rooms and bath-rooms for the use of the commissioners. On the opposite side of the building is the lady commissioners' committee room, and also a store room, where packing cases, chairs, etc., can be stored. The three exhibition rooms are arranged so that they can be thrown together and form an assembly room. The interior is furnished in white or old ivory. The structure cost \$18,000.

LOUISIANA.

Following are the members of the Louisiana State Board of Commissioners: A. A. Woods, President, New Orleans; Jos. A. Shakespeare, Vice-President, New Orleans; Robert Bleakley, Secretary, Chamber of Commerce Building, New Orleans; James M. Pagaud, Jr., Treasurer, New Orleans; John C. Wickliffe, State Commissioner; Thomas J. Woodward, New Orleans; A. Brittin, New Orleans; John Dymond, New Orleans; L. M. Finley, New Orleans; Lewis Johnson, New Orleans.

Ladies' Auxiliary Board: Mrs. Belle H. Perkins; Mrs. Scott McGehee, Vice-Chairman; Mrs. Jos. Oglesby, Secretary; Mrs. W. W. Carré, Treasurer.

National Board Lady Managers: Miss K. L. Minor, Houma; Mrs. Belle A. Perkins, New Orleans. Alternates: Mrs. B. S. Leathers, New Orleans; Mrs. W. W. Carré, New Orleans.

National Commission: Davidson B. Penn, New Orleans; Thomas J. Woodward, New Orleans. Alternates: Alphonse Le Duc, New Orleans; P. J. McMahon, Tangipahoa.

The Louisiana State Building is in the Colonial style and is an imitation of the old fashioned Creole homes of the Pelican State. It has a frontage of 66 feet, depth 56 feet, is two stories high with piazzas to both floors on parts of three sides. The first story is 14 feet in the clear, second story 13 feet. The building is finished in natural woods—principally cypress and white pine. The interior contains on the ground floor a large hall, off which is ranged reception rooms, dining room and smoking room. The second story contains a large exhibition room which communicates with smaller exhibition rooms and ladies' parlor. Retiring rooms and lavatories have been provided on both floors. The building cost \$18,000.

MAINE.

Following are the members of the Maine State Board of Commissioners: Hall C. Burleigh, President, Vassalboro; Henry Ingalls, Vice-President, Wiscasset; Eva A. Parcher, Secretary, Saco; Jas. A. Boardman, Treasurer, Bangor; Chas. P. Mattocks, Executive Commissioner, Portland; Clark S. Edwards, Bethel; Augustus R. Bixby, Skowhegan; Wm. G. Davis, Portland; D. J. Callahan, Lewiston; Jos. P. Bass, Bangor; Mrs. Kate May Andrews, Lewiston; Mrs. Lucinda M. Bellows, Freedom; Mrs. Agnes C. Paul, Fort Fairfield.

National Board Lady Managers: Mrs. E. C. Burleigh, Augusta; Mrs. L. M. N. Stevens, Portland. Alternates: Mrs. Sarah H. Bixby, Skowhegan; Miss Helen M. Staples, Hanover.

National Commission: Augustus R. Bixby, Skowhegan; William G. Davis, Portland. Alternates: James A. Boardman, Bangor; Clark S. Edwards, Bethel.

The Maine State Building is octagonal in form, with a ground area of 65 feet square. It is two stories in height, the roof surmounted by a lantern in the center, and four corner towers. The first story is of granite. The exterior finish of the rest of the building is in wood and staff. The roof is of slate. The central tower or lantern is 86 feet to its highest point. While the first story is octagonal in form, the second story presents but four sides, each with a loggia opening to the rooms within. The second-story floor overhangs the first story one foot. The main entrance of these arched doorways faces the southeast. Over it projects a boat's bow, in staff. Within the entrance is an octagonal rotunda, open to the roof line, its ceiling being an ornamental colored skylight. On the first floor entrance is had to the fine parlors and reception rooms, designed for men and women, toilet rooms, and two commissioners' rooms. A railed gallery extends entirely around the rotunda, which gives a complete view of the building



GROVER CLEVELAND.
PRESIDENT OF THE UNITED STATES.



ADLAI STEVENSON,
VICE-PRESIDENT OF THE UNITED STATES.

to the visitors. The interior finishing is very handsome, being done in hardwood. The granite and roof slate used in construction, the skylight in the rotunda, and the mantels over the fire-places are all the products of the State of Maine, and are donated by manufacturers. The building cost \$22,000.

MARYLAND.

Following are the members of the Maryland State Board of Commissioners: Gov. Frank Brown, President, Baltimore; Hon. F. C. Latrobe, Vice-President, Baltimore; J. Olney Norris, Secretary, Baltimore; Otis C. Brownley, Assistant Secretary, Havre de Grace; Frank S. Hambleton, Treasurer, Baltimore; Wm. H. Love, Recording and Financial Secretary, Baltimore; George L. McCahan, Executive Commissioner, Baltimore; Chas. T. Davis, Assistant Executive Commissioner, Baltimore; Hon. Murray Vandiver, Havre de Grace, Harford county; David Hutzler, Baltimore; Frank N. Hoen, Baltimore; John R. Bland, Baltimore; H. H. Dashiell, Princess Anne; Frank R. Scott, Elkton; James T. Perkins, Springfield; Prince George's county.

Committee on Woman's Work: Mrs. Wm. Reed, Baltimore, Chairman; Mrs. Elihu E. Jackson, Salisbury; Mrs. Chas. M. Ellis, Elkton; Mrs. John Ritchie, Frederick; Mrs. Alexander Neill, Hagerstown; Miss Isabel Hampton, Baltimore; Miss Henrietta Szold, Baltimore; Miss M. E. Richmond, Baltimore; Miss Elizabeth King, Baltimore; Mrs. Henry Stockbridge, Baltimore.

National Board Lady Managers: Mrs. William Reed, Baltimore; Mrs. Alexander Thompson, Mt. Savage. Alternates: Mrs. J. W. Patterson, Baltimore; Miss Eloise Norman, Cumberland.

National Commission: James Hodges, Baltimore; Lloyd Lowndes, Cumberland. Alternates: George M. Upshur, Snow Hill; Daniel E. Conkling, Baltimore.

The Maryland Building is near the lake and opposite the Virginia Building. It is a handsome structure and is divided into reception hall, ladies' toilet, ladies' parlor, exhibition hall, woman's department, bureau of information and main exhibition hall, beside spacious porches on the first floor. Gents' toilet, office, smoking room, reading room and three parlors which communicate constitute the second floor, and a gallery overlooking the main exhibition hall is entered from this floor. The flat deck roofs of porches and buildings offer fine points of vantage for overlooking the grounds of the World's Fair.

MASSACHUSETTS.

Following are the members of the Massachusetts State Board of World's Fair Managers: Gen. Francis A. Walker, Chairman, Boston; Mrs. Alice Freeman Palmer, Cambridge; Miss Anna L. Dawes, Pittsfield; Hon. Edward Burnett, Southboro; E. C. Hovey, Secretary and Executive Commissioner, Brookline.

National Board Lady Managers: Mrs. Jonas H. French, Boston; Mrs. Rufus S. Frost, Chelsea. Alternates: Miss Mary Crease Sears, Boston; Mrs. A. F. Palmer, Cambridge.

National Commission: Francis W. Breed, Lynn; Thos. E. Proctor, Boston. Alternates: George P. Ladd, Spencer; Charles E. Adams, Lowell.

The Massachusetts Building is in the Colonial style, and is largely a reproduction of the historic John Hancock residence, which, until the year 1867, stood on Beacon Hill, Boston, near the State capitol. The building is three stories high, surmounted in the center by a cupola. The exterior is of staff, in imitation of cut granite. It follows the lines of the old house sufficiently faithful to recall the original to the minds of those who have seen it. Like the original, it is surrounded by a terrace, raised above the street, and has in front and on one side a fore-court, filled with old-fashioned flowers and foliage, in keeping with the character of the building. It is approached by two flights of steps—one leading from the street to the terrace, the other from the court to the house. The main entrance opens to a spacious, well-studded hallway, with a tiled floor. Facing the entrance is a broad, Colonial staircase, leading to the second floor. An old-fashioned, bull's-eye window gives light to the stairway. On the right of the hall is a large room, constituting a registration room, postoffice and general reception room. The fittings and furnishings of this room are unique. Its marble floor, its tiled walls, its uncovered beams, and its high mantel recall the old Dutch rooms found in Western Massachusetts, as well as in New York and Pennsylvania. On the left of the front door, or main entrance, are two large parlors, which, when thrown together, form a room 80 by 25 feet in size. The front parlor is furnished by the Essex Institute, of Salem, an old historical society. The back parlor is more especially a reading room for men. The second floor is given over almost

entirely to the use of women. There is a large and a smaller parlor, and two bedrooms for the use of the women's board. The entire floor is furnished in old-fashioned furniture, and in the bedrooms are four-post bedsteads. On the third floor are rooms for servants. A liberty pole, 85 feet high, stands in the forecourt, and a gilded codfish serves as a vane on the top of the cupola. The building cost \$65,000,

MICHIGAN.

Following are the members of the Michigan State Board of Commissioners: Isaac M. Weston, President, Grand Rapids; Eugene H. Belden, Vice-President, Horton; Mark W. Stevens, Secretary, Flint; James W. Flynn, Treasurer, Detroit; Gov. John T. Rich, Lansing; Mrs. Julia A. Pond, Hillsdale; Mrs. J. S. Valentine, Lansing; Peter White, Marquette.

National Board Lady Managers: Mrs. Eliza J. P. Howes, Battle Creek; Mrs. Sarah S. C. Angell, Ann Arbor. Alternates: Mrs. Frances P. Burrows, Kalamazoo; Miss Anna M. Cutcheon, Detroit.

National Commission: M. Henry Lane, Kalamazoo; George H. Barbour, Detroit. Alternates: Ernest B. Fisher, Grand Rapids; Lyman D. Norris, Grand Rapids.

The Michigan State Building is 100x140 feet; is three stories high and has a square shaped tower in the front center with an observatory on the top. A long gallery extends clear across the front. On the first floor are the administration offices, reception rooms, reading rooms, and ladies' parlors. On the second floor are two large exhibition halls for Michigan relics, and native curiosities, assembly halls, and a room for board meetings. On the third floor are the living rooms for the secretary of State and his family, and employes of the State commission. The building is constructed entirely of native material. The Legislature of Michigan appropriated \$20,000 for their State Exposition Building, but most of the materials were contributed so that the structure as it stands represents an outlay of \$50,000. The prominent features of the exhibition are fruits, agricultural products, iron, copper, salt and other minerals, lumber, fish, furniture and other manufactures, and education.

MINNESOTA.

Following are the members of the Minnesota State Board of Commissioners: D. A. Monfort, President, St. Paul; J. La Due, Vice-President, Luverne; C. McC. Reeve, Secretary, Minneapolis; J. J. Furlong, Treasurer, Austin; A. L. Ward, Fairmont; George N. Lamphere, Moorhead; Gov. Knute Nelson, ex-officio, St. Paul; O. V. Tousley, ex-officio, Minneapolis; H. B. Moore, ex-officio, Duluth; L. P. Hunt, Superintendent State Exhibit, Mankato.

Women's Auxiliary Board: Mrs. F. B. Clarke, President, St. Paul; Mrs. F. M. Greenleaf, Vice-President, Minneapolis; Mrs. A. A. White, Treasurer, Moorhead; Miss Mamie Dasse, Secretary, St. Paul; Mrs. Henry F. Brown, Minneapolis; Mrs. A. T. Stebbins, Rochester; Mrs. L. P. Hunt, Mankato; Mrs. Francis M. Crosby, Hastings; Mrs. Henry Hasenwinkle, St. Paul; Mrs. George Forsyth, Brainerd.

National Board Lady Managers: Mrs. F. B. Clarke, St. Paul; Mrs. H. F. Brown, Minneapolis. Alternates: Mrs. P. B. Winston, Minneapolis; Mrs. M. M. Williams, Little Falls.

National Commission: H. B. Moore, Duluth; Orson V. Tousley, Minneapolis. Alternates: Thomas C. Kurtz, Moorhead; Muret N. Leland, Wells.

The Minnesota Building is designed in the Italian renaissance style, two stories high, with a mezzanine story in the rear. The frame is of wood, covered with staff. The roof is of Spanish tile. The ground dimensions are 78x91 feet. The main entrance is on the south. In the recess within the entrance is a sculptural group, symbolizing the legend of Minnehaha and Hiawatha. On the first floor is the exhibition hall, 52x78 feet, a postoffice, baggage and ticket rooms, and superintendent's room. The main stairway is in the rear, opposite the entrance, and on the landing, half-way up, is a semi-circular bay alcove, lighted with large glass windows. On the second floor is a reception hall, 30x33 feet, parlors and retiring rooms for men and women, and a committee room. In the mezzanine story are four bedrooms and two bath-rooms. The interior walls are plastered, decorated in fresco, in plain tints, and finished in pine. The women's rooms have color decorations done by women of the State. The building cost \$30,000.

MISSISSIPPI.

National Board Lady Managers: Mrs. James W. Lee, Aberdeen; Mrs. John M. Stone, Jackson. Alternates: Mrs. George M. Buchanan, Holly Springs; Miss Varina Davis, Beauvoir. National Commission: Joseph M. Bynum, Rienzi; Robert L. Saunders, Jackson. Alternates: Fred W. Collins, Summit; Joseph H. Brinker, West Point.

The Mississippi Legislature refused to pass an appropriation bill, hence that State has no building nor State Board of Commissioners.

MISSOURI.

Following are the members of the Missouri State Board of Commissioners: N. H. Gentry, President, Sedalia; Nathan Frank, Vice-President, St. Louis; Wm. Dawson, Secretary, New Madrid; Dr. E. McD. Coffey, Treasurer, Platte City; Charles W. Green, Brookfield; H. H. Gregg, Joplin; Hugh J. McGowan, Kansas City; J. K. Gwynn, Executive Commissioner, St. Louis.

Ladies' Auxiliary Board: Mrs. Patti Moore, Kansas City; Mrs. J. N. Edwards, St. Joseph; Mrs. Teresa B. Adams, St. Louis; Mrs. S. P. Sparks, Warrensburg; Mrs. M. J. Phelps, Springfield; Mrs. J. J. Russell, Charleston.

National Board Lady Managers: Miss Phoebe Couzins, St. Louis; Miss Lillian M. Brown, Kirkwood. Alternates: Mrs. Patti Moore, Kansas City; Mrs. A. L. Y. Orff, St. Louis.

National Commission: Thomas B. Bullene, Kansas City; Charles H. Jones, St. Louis. Alternates: O. H. Picher, Joplin; R. L. McDonald, St. Joseph.

The ground plan of the Missouri Building is square, with a quarter circle taken out of the southeast corner, to correspond with the form of the juncture of the two avenues on which it faces. To the south is the Art Building, and to the east, across the avenue, is Pennsylvania's building. The building is 86x86 feet, two stories high. In the front, and over the main entrance, is an elliptical dome, 70 feet high, flanked by smaller octagonal domes, 48 feet high. The main entrance, which is in the southeast corner of the building, facing both avenues, is of cut brown stone from the quarries of Warrensburg, Mo. The balance of the structure is frame, covered with staff, and the columns and pilasters are of the same material. Within the main entrance is a rotunda, with a mosaic tile floor. On either side of the main entrance are minor entrances, the one on the left leading to the headquarters of Western Missouri and Kansas City, and the one on the right leading to the headquarters of Eastern Missouri and St. Louis. Within the rotunda are the telegraph office and the postoffice, occupying the space under the octagonal dome. On either side of the rotunda is a fountain. On the left of the rotunda are two exhibit rooms 30x20 feet and 28x17 feet. On the right is a journalists' room, a reading-room, a library, and a bureau of information. Entrance is had to the rotunda from all of these rooms by tiled halls. Two flights of stairs, very handsome, in red and white oak, lead to the second floor. A promenade balcony with a marble floor overhangs the main entrance. A large auditorium room, irregular in shape, occupies the center and larger portion of the second floor. The southeast bay is occupied by a parlor and reading room for women, the southwest bay by a similar room for men. There are toilet rooms, and a committee room, and a special room for the Governor of Missouri. On the balcony floor are six bed-rooms, three in each bay, and a kitchen. The building contains thirty-two rooms. It is very handsome, and richly ornamented. The glass is all plate. This plate glass, as well as the tile for the roof and flooring, the plumbing, and the cut stone, is donated by Missouri manufacturers. The building cost \$50,000.

MONTANA.

Following are the members of the Montana State Board of Commissioners: Stephen DeWolfe, President, Butte; Allen R. Joy, Vice-President, Livingston; James G. Ramsay, Secretary, Helena; David G. Browne, Treasurer, Fort Benton; W. M. Bickford, Executive Commissioner, Missoula; Phil Lovell, Dillon; Herbert O. Chowen, Great Falls; C. R. Middleton, Miles City; Alf. J. Stephens, Lewistown; Wm. M. Nevitt, Bozeman; Thomas Joyes, Boulder; A. J. Davidson, Helena; D. A. Pease, Twin Bridges; Wm. H. Sutherlin, White Sulphur Springs; George M. Hays, Billings; George W. Morse, New Chicago.

National Board Lady Managers: Mrs. Clara L. McAdow, Spotted Horse; Mrs. J. E. Rickards, Butte. Alternates: Mrs. M. D. Cooper, Bozeman; Mrs. L. E. Howey, Helena.

National Commission: L. H. Hershfield, Helena; Dr. A. H. Mitchell, Deer Lodge. Alternates: B. F. White, Dillon; T. E. Collins, Great Falls.

The Montana Building is in the Romanesque style of architecture, one story in height, and cost \$20,000. It has a ground area of 62 feet front by 113 deep. The structure is frame, covered with staff, the interior being ornamented with heavy, projecting pilasters, with Roman caps and bases and Roman arches. The roof is of tin and canvas, and the building is surmounted by a glass dome 22 feet in diameter and 38 feet high. The front of the building, facing the south, presents two side wings, with a large arched entrance in the center. The fronts of the wings are ornamented with heavy, scrolled pediments. The entrance arch is 12x12 feet, supported by heavy columns. Within is the vestibule, with marble floor and ceiling paneled in staff. It presents a series of three arched doorways, the center one opening into the rotunda under the dome, the side doors leading to the men's and women's parlors. On either side of the entrance arch are balustrades, enclosing the vestibule. Flanking the arch are two panels, 4x5 feet in size, one bearing the State motto, "Oro y Plata"—gold and silver—and the other, "1893," in Roman figures. These panels are in pure sheet gold. Above the entrance arch, and practically on the roof of the building, is the figure of an elk, of heroic size, cast in staff. The interior is finished in Georgia pine. The walls are tinted in oil. All the main rooms open onto the rotunda, under the central dome. In the rear is a banquet hall, 40x50 feet, covered by a large skylight. In the center of this floor stands a group of three mounted elks. A wide gallery extends around the hall, and in the gallery the State exhibit is made. A life size statue of Miss Ada Rehan, the well known American actress, cast in solid silver and resting on a pedestal of gold (from Montana mines), is one of the interesting exhibits made by the State.

NEBRASKA.

Following are the members of the Nebraska State Board of Commissioners: Charles A. Coe, President, Omaha; A. H. Gale, Secretary Bassett; Joseph Garnea, Commissioner-General, Omaha; M. H. Weiss, Hebron; A. J. Sawyer, Lincoln; Seth P. Mobley, Grand Island; J. B. Steward, Benedict.

Woman's Auxiliary Board: Mrs. M. Allen Bock, President, Omaha; Miss Elizabeth W. Irwin, Secretary, Lincoln; Mrs. E. C. Langworthy, Chairman Executive Committee, Seward; Mrs. Edward Stewart, Blair; Mrs. W. H. McDonald, North Platte; Mrs. Alice D. Hume, Harvard; Mrs. J. H. Smith, Lincoln; Mrs. E. L. Eaton, Omaha; Mrs. J. H. Lynch, Hebron; Miss Antoinette Wortham, Pawnee City; Mrs. C. B. Wells, Matson; Mrs. A. Patterson, Omaha.

National Board Lady Managers: Mrs. John S. Briggs, Omaha; Mrs. E. C. Langworthy, Seward. Alternates: Mrs. M. A. B. Martin, Lincoln; Mrs. Lena A. Bates, Aurora.

National Commission: Euclid Martin, Omaha; Albert G. Scott, Kearney. Alternates: William L. May, Omaha; John Lauterbach, Fairbury.

The style of architecture of the Nebraska State Building is classical, and of the Corinthian order. The building has a ground area of 60x100 feet, and is two stories high. The exterior is of staff. On the east and west fronts are wide porticos, approached by flights of steps. Over the porticos are projecting gables, supported by six columns, twenty-five feet high, the full distance from the cornice to the floor. In each pediment is the State seal, in bas-relief, five feet in diameter. From each portico three large double doors of oak give entrance to the exhibit hall. The room is 60x70 feet, and in it an agricultural display is made. On the first floor, also, are a reception room, commissioners' office, baggage room and postoffice. A double stairway nine feet wide, leads from the center of the exhibit hall to the second floor. Here is an exhibit room, 60x70 feet, used for an art exhibit. On this floor are a women's parlor, reading room, smoking room and toilet rooms. The building cost \$20,000.

NEVADA.

Following are the members of the Nevada State Board of Commissioners: J. A. Yarrington, Chairman and Secretary, Hawthorne; J. W. Haines, Genoa; George Russell, Elko.

National Board Lady Managers: Miss E. M. Russell, Elko; Mrs. D. M. Foley, Reno. Alternates: Miss Mary E. Davies, Genoa; Miss Jennie Torreyson, Carson.

National Commission: J. W. Haines, Genoa; George Russell, Elko. Alternates: Enoch Strother, Virginia City; Richard Ryland, Reno.

The Nevada Legislature made an appropriation of \$10,000, which has been expended in making a complete showing of that State's mineral and agricultural resources. The former may be seen in the Mines and Mining Building and the latter in the Agricultural Building. The world-renowned pre-historic footprints, fossils, etc., which were removed from the floors of the quarry at the Nevada State prison at Carson, are also shown. These prints and fossils, etc., will undoubtedly prove most valuable to the scientific world. This is the first time the originals were ever removed, numerous museums in different parts of the world having them in plaster casts; they are shown in the Department of Mines and Mining and consist of footprints, fossils, bones, teeth, etc., of a very remote period. They were taken from a depth of thirty-four feet from the surface of the quarry of the State prison at Carson.

NEW HAMPSHIRE.

Following are the members of the New Hampshire State Board of Commissioners: Charles H. Amsden, President, Penacook; George F. Page, Vice-President, Concord; Thomas J. Walker, Secretary, Plymouth; Frank M. Rollins, Treasurer, Manchester; Elijah M. Shaw, Executive Commissioner, Nashua.

National Board Lady Managers: Mrs. Myra B. F. Ladd, Lancaster; Mrs. Daniel Hall, Dover. Alternates: Mrs. Frank H. Daniell, Franklin Falls; Mrs. Ellen J. Coles, Lakeport.

National Commission: Walter Aiken, Franklin; Charles D. McDuffee, Manchester. Alternates: George Van Dyke, Lancaster; Frank E. Kaley, Milford.

The New Hampshire Building is in imitation of a Swiss cottage. Its dimensions are 53x84 feet and it is two stories in height. The pitched, shingle roof is broken by five gables. The exterior is weatherboarded in stained Georgia pine above a line seven feet from the ground. This first seven-foot course is in New Hampshire granite. Each of the two stories is surrounded on all sides by a wide piazza. The rooms on the second floor open to the piazza through hinged windows opening to the floor. The entrance is on the east, facing the drive on Lake Michigan. On the first floor is a reception hall, 22x36 feet. It has two unique fire-places in pressed granite brick. To the rear of the hall is a wing of the main building, two stories high, the second story being a wide balcony or gallery to the main floor. The roof is a glass skylight. A State exhibit, a picture collection, and a large State map are shown here. Beside the reception hall on the first floor there are parlors for men and women. These rooms are ceiled, while the reception hall opens to the roof and is covered with a skylight. The second floor has a reception room and six board and committee rooms. The building cost \$10,000.

NEW JERSEY.

Following are the members of the New Jersey State Board of Commissioners: Stephen J. Meeker, President, Newark; Edward Bettle, Vice-President, Camden; Walter S. Lenox, Secretary and Treasurer, Trenton; Peter Hauck, Harrison; Frederick A. Canfield, Dover; Millard F. Ross, New Brunswick; Garret A. Hobart, Paterson; Peter E. Swartsweller, Belvidere.

Lady Board of Managers: Mrs. Edwin Stevens, Chairman, Hoboken; Mrs. Thomas T. Kinney, Vice-Chairman, Newark; Mrs. Emily Warren Roebling, Secretary, Trenton; Mrs. Robert Adrain, New Brunswick; Miss Mary S. Clark, Belvidere; Miss Rosa Murray, Paterson; Mrs. Sarah G. Ware, Salem, N. J.; Mrs. Charles B. Yardley, East Orange.

National Board Lady Managers: Mrs. Mary E. Busselle, Newark; Mrs. Martha B. Stevens, Hoboken. Alternates: Mrs. C. W. Compton, Newark; Mrs. A. M. Smith, Newark.

National Commission: William J. Sewell, Camden; Thomas Smith, Newark. Alternates: Frederick S. Fish, Newark; Edwin A. Stevens, Hoboken.

Those familiar with the appearance of the Washington headquarters in Morristown, N. J., will recognize in New Jersey's building the nucleus of the general lines and details of that historic structure. The interest of the Morristown building is no doubt somewhat shared in by the New Jersey Building, and it seems that the State has done well in selecting the old headquarters as a starting point for the design, when it is remembered that under the roof of the old Morristown house more of the noted characters of the Revolution have gathered than under any other roof in America. General Washington made the building his headquarters during the winter of 1779 and '80, and Alexander Hamilton

lived there during the same long winter, and there "he met and courted the lady he afterward married, the daughter of General Schuyler." Celebrated men, including Green, Knox, Lafayette, Steuben, Kosciusko, Schuyler, "Light Horse" Harry Lee, old Israel Putman, "Mad Anthony" Wayne, and "that brave soldier but rank traitor, Benedict Arnold," have all been beneath its roof. This building is used as the headquarters of New Jersey commissioners, and is a place where every New Jerseyman and his family is made to feel at home, where he can meet his friends, can register his address and receive his letters. It is, in fact, a part of his own State transported to the Exposition grounds. The site of the building is centrally located among those of the States of New York, Massachusetts, Rhode Island and Connecticut. The building is not intended for exhibition purposes, but is more in the nature of a clubhouse for the use and convenience of all Jersey people. There are large and inviting piazzas on the front and rear. The main entrance opens into a large general assembly hall, two stories high with a circular balcony looking down from the second story. This hall contains the postoffice and the hat and cloak counter, a large open fire-place, nearly ten feet across, and the main staircase, this latter being made a feature of the design. On the right hand side of the building are located the rooms set apart especially for the ladies; these consist of the general meeting room of the Ladies' Board of Managers, two parlors on the second floor, with lavatories and bath-rooms. On the left hand side of the building are the rooms set apart for gentlemen, the secretary's office, board room, president's room, committee rooms and lavatories. In the third story are the care-takers' apartments and store-rooms for documents, etc. The building is principally of frame construction, covered with clapboards and with some of the ornamental portions in staff. The roof is shingled. The dimensions of the main building are 51 feet long, 31 feet deep and 37 feet high to the ridge. Each wing is 16 feet front, 21 feet deep and 30 feet high. The piazzas, in front and rear, are each 68 feet long by 16 feet wide (at the widest part). The area covered, including piazzas, is 3,949 square feet. The general style of the building is Colonial. The cost is \$40,000. Considerable of the material was donated by manufacturers in the State.

NEW YORK.

Following are the members of the New York State Board of Commissioners: Chauncey M. Depew, president, New York, Gorton W. Allen, Vice-President, Auburn; John Foord, Secretary, Albany; Donald McNaughton, Executive Officer, Albany; John Boyd Thatcher, Albany; Louis M. Howland, New York; Walter L. Sessions, Jamestown; Charles A. Sweet, Buffalo.

Judicial District Commissioners: *First Judicial District*—City and County of New York—Richard Delafield, President, 10 West 9th street, New York; Samuel W. Fairchild, Secretary, 82 Fulton street, New York; James W. Tappin, Treasurer, 60 Broad street, 558 Fifth avenue, New York; Edmund C. Stanton, Secretary to the Commissioners, office, Madison Square Bank Building, New York City. *Second Judicial District*—Richmond, Suffolk, Queens, Kings, Westchester, Orange, Rockland, Putnam and Dutchess—Daniel M. Somers, President, 101 Halsey street, Brooklyn; Cord Meyer, Jr., Secretary, 11 Wall street, New York; Henry Seibert, Treasurer, 608 Bedford avenue, Brooklyn, 12 and 14 Warren street, New York; Thomas F. Farrell, Secretary; John Phillips, Chief Clerk, office, Rooms 2 and 3 Eagle Building, Brooklyn, N. Y. *Third Judicial District*—Columbia, Sullivan, Ulster, Greene, Albany, Schoharie and Rensselaer—John T. Norton, President, 37 Tweddle Building and 300 State street, Albany; William H. Rowe, Jr., Secretary, 76 Franklin street, Troy, N. Y.; Manly B. Mattice, Treasurer, Catskill; George S. Stevens, Chief Clerk, office, Capitol, Albany. *Fourth Judicial District*—Warren, Saratoga, Washington, Essex, Franklin, St. Lawrence, Clinton, Montgomery, Hamilton, Fulton and Schenectady—Edward Ellis, President, Schenectady; Thomas J. Whitney, Secretary, Gouverneur; George S. Weed, Plattsburgh; Harry S. Estcourt, Chief Clerk, office, Room 12, Town Hall, Saratoga Springs, N. Y. *Fifth Judicial District*—Onondaga, Oneida, Oswego, Herkimer, Jefferson and Lewis—John F. Gaynor, President, Fayetteville; Walter N. Kernan, Secretary, Utica; George B. Sloan, Treasurer, Oswego; ——— Chief Clerk, office, Kirk Block, Syracuse, N. Y. *Sixth Judicial District*—Otsego, Delaware, Madison, Chenango, Broome, Tioga, Chemung, Tompkins, Cortland and Schuyler—Hugh Duffy, President, Cortland; George F. O'Neil, Secretary, Binghamton; Robert H. Thurston, Ithaca; J. Frank Hawkins, Chief Clerk, office, Strong Block, Binghamton, N. Y. *Seventh Judicial District*—Livingston, Wayne, Seneca, Yates, Ontario, Steuben, Monroe and Cayuga—William S. Kimball, President, Rochester; Henry Stowell, Secretary, Seneca Falls; Edwin C. Cook,



BENJAMIN HARRISON,
EX-PRESIDENT OF THE UNITED STATES.



LEVI P. MORTON,
EX-VICE-PRESIDENT OF THE UNITED STATES.

Bath; W. H. Benjamin, Chief Clerk, office, Chamber of Commerce, Rochester, N. Y. *Eighth Judicial District*—Erie, Chautauqua, Cattaraugus, Orleans, Niagara, Genesee, Allegany and Wyoming—Henry Koons, President, 474 Main street, Buffalo; Willard T. Ransom, Secretary, Lockport; Henry W. Box, 311 Main street, Buffalo; George T. Smith, Chief Clerk, office, 9 Niagara street, Buffalo, N. Y. *Bureau of Agriculture*—James Wood, Director-in-Chief Mt. Kisco, Westchester, N. Y.; George T. Powell, in charge of Bureau of Pomology; James Dean, in charge of Bureau of Floriculture; George C. Snow, in charge of Bureau of Viticulture. *The Six Nations of Indians*—Rev. John W. Sanborn, Director-in-Chief.

Board of Women Managers of the Exhibit of the State of New York: *First Judicial District*—City and County of New York—Mrs. Arthur M. Dodge, 72 E. 34th street, New York; Mrs. Fred. R. Halsey, 22 W. 53d street, New York; Miss Annie Hemstrought, 164 E. 28th street, New York; Miss J. Imogen Howard, 20 Gt. Jones street, New York; Miss Anna Roosevelt, 689 Madison avenue, New York; Mrs. Oscar F. Straus, 27 W. 74th street, New York; Mrs. Geo. Waddington, 39 E. 9th street, New York; Mrs. H. Walter Webb, 202 Madison avenue, New York. *Second Judicial District*—Richmond, Suffolk, Queens, Kings, Westchester, Orange, Rockland, Putnam and Dutchess—Mrs. Frederick P. Bellamy, 50 Garden Place, Brooklyn; Miss Elizabeth T. Minturn, Hastings-on-the-Hudson; Mrs. J. S. T. Stranahan, 269 Union street, Brooklyn. *Third Judicial District*—Columbia, Sullivan, Ulster, Greene, Albany, Schoharie and Rensselaer—Mrs. Erastus Corning, Albany; Mrs. Dean Sage, Menands. *Fourth Judicial District*—Warren, Saratoga, Washington, Essex, Franklin, St. Lawrence, Clinton, Montgomery, Hamilton, Fulton and Schenectady—Mrs. William J. Averill, Ogdensburg. *Fifth Judicial District*—Onondaga, Oneida, Oswego, Herkimer, Jefferson and Lewis—Mrs. Howard G. White, Syracuse. *Sixth Judicial District*—Otsego, Delaware, Madison, Chenango, Broome, Tioga, Chemung, Tompkins, Cortland and Schuyler—Mrs. Leslie Pell Clarke, Springfield Center; Mrs. Andrew D. White, Ithaca. *Seventh Judicial District*—Livingston, Wayne, Seneca, Yates, Ontario, Steuben, Monroe and Cayuga—Miss Caroline E. Dennis, Auburn; Mrs. Charles F. Wadsworth, Genesee. *Eighth Judicial District*—Erie, Chautauqua, Cattaraugus, Orleans, Niagara, Genesee, Allegany and Wyoming—Miss Maria M. Love, 184 Delaware avenue, Buffalo; Miss Frances Todd Patterson, Westfield.

Officers of the Board of Women Managers: Mrs. Erastus Corning, President, Albany, N. Y.; Mrs. George Waddington, First Vice-President, 38 E. Ninth street, New York City; Mrs. J. S. T. Stranahan, Second Vice-President, 269 Union street, Brooklyn, N. Y.; Mrs. Leslie Pell Clarke, Secretary, Springfield Center, Otsego County, N. Y.; Miss Frances Todd Patterson, Treasurer, Westfield, Chautauqua County, N. Y.; Mrs. Florence C. Ives, Chief Clerk, office, the Capitol, Albany, N. Y. *Executive Committee*—Mrs. Dean Sage, Chairman, Menands, Albany County, N. Y.; Mrs. Frederick P. Bellamy, 50 Garden Place, Brooklyn, N. Y.; Miss Anna Roosevelt, 689 Madison avenue, New York City; Miss Caroline E. Dennis, Auburn, N. Y.; Mrs. Howard G. White, Syracuse, N. Y.; Mrs. H. Walter Webb, 202 Madison avenue, New York City. *Committee on Philanthropy*—Mrs. Arthur M. Dodge, Chairman; Miss Maria M. Love, Miss Anna Hemstrought, Miss Anna Roosevelt, Miss Caroline E. Dennis, Mrs. F. P. Bellamy. *Committee on Raising Funds and Decorating the Library in Women's Building*—Mrs. Dean Sage, Chairman; Mrs. H. Walter Webb, Mrs. Wm. J. Averill, Mrs. Oscar S. Straus, Mrs. C. F. Wadsworth, Mrs. J. S. T. Stranahan; Mrs. Wheeler is to serve on this committee. *Committee on Education*—Mrs. F. P. Bellamy, Chairman; Mrs. J. S. T. Stranahan, Miss F. T. Patterson, Miss I. J. Howard. *Committee for Obtaining Statistics Concerning Women's Work, Past and Present*—Miss Anna Roosevelt, Chairman; Mrs. George Waddington, Mrs. H. G. White, Miss Anna Hemstrought, Mrs. C. F. Wadsworth, Miss Frances T. Patterson. *Committee on Manufactures and Industries*—Miss Anna Roosevelt, Chairman; Miss Anna Hemstrought, Mrs. Leslie Pell-Clarke, Mrs. A. M. Dodge, Mrs. Wm. Averill, Mrs. Fred. R. Halsey. *Committee on Fine Arts*—Mrs. Leslie Pell-Clarke, Chairman; Mrs. J. S. T. Stranahan, Mrs. Dean Sage, Mrs. Fred R. Halsey. *Committee on Women's Work in Literature, Literary Clubs and the Press*—Mrs. F. P. Bellamy, Chairman; Mrs. J. S. T. Stranahan, Miss Anna Roosevelt, Mrs. Oscar S. Straus. Mrs. T. M. Wheeler, in charge of Bureau of Applied Arts, 1122 Broadway, New York City; Miss Juliet Corson, in charge of Model Kitchen Department.

National Board Lady Managers: Mrs. Ralph Trautman, New York; Mrs. William K. Vanderbilt, New York. Alternates: Mrs. John Pope, New York; Mrs. A. M. Palmer, New York.

National Commission: Chauncey M. Depew, New York; John Boyd Thatcher, Albany. Alternates: James H. Breslin, New York; James Roosevelt, New York.

New York's State Building ranks in size next to that of Illinois and California. It costs \$150,000. The architectural idea in the building is that of a big summer house. It is three stories high, being 57 feet from the ground to the cornice. The exterior is in stoff, in imitation of marble, and in keeping with the style of the main Exposition buildings. Its decked roof is surmounted and confined by a heavy balustrade. Each pedestal of the balustrade supports a large Italian vase, in which grows a bay-tree, giving the building, together with its other characteristics, the air of a Pompeiian house. The flat, decked roof furnishes a promenade and summer garden. From its center rises a clere-story over the banquet hall, and above the clere-story are two belvideres. On the

north and south ends of the building are circular porticoes, in each of which is a fountain. The general dimensions are 160 feet front by 105 feet deep. A broad flight of steps, guarded by Roman lions, leads to the arched entrance. About this entrance is concentrated all the exterior ornamentation of the building. It is in the style of the Italian renaissance, a villa in character, rectangular in form, approached on the south by a flight of fourteen steps, 46 feet wide, giving access to a grand terrace, 15x80 feet, from which the loggia, or open vestibule, 46x17 feet 6 inches is reached. Partaking of the domestic as well as the palatial style, the building is not only the headquarters of New York people at the Exposition, but also a most comfortable place for the reception and entertainment of distinguished foreign guests. The semi-circular porticoes, east and west, have a diameter of 50 feet in the form of an *exedra*, and the uncovered portion, furnished with the fountain, is a unique feature of the building. It is proposed to place a bust of Washington upon the key block over the main entrance, and at either side those of the first and the present governors of the State. The main floor of the building consists of the vestibule, a grand staircase hall, with a dome ceiling 46 feet from the floor, a small reception-room, a suite of three drawing-rooms, smoking, writing and reading-rooms, lavatory and coat-room, post-office and telegraph and telephone service and bureau of information. The second floor contains a large hall, 84 feet long, 46 feet wide and 45 feet in height, on the west of which is the room reserved for the Board of Lady Managers. There is also offices for the General Managers' Board and the Board of District Commissioners. The entrance to the building is flanked by the Barbarini lions recently cast in Rome, selected in preference to the lions of the Villa Medici, which however fine, are inferior in size. The four pedestal lamps lighting the terrace are exact copies in bronze of antique examples in the Museum at Naples, and are richly sculptured. In the circular niches, on either side of the arch of the entrance, are busts of Hudson and Columbus. Above the key-stone of the arch is the American eagle, and dependent from a staff, projecting above the bird, is a flag, bearing the State's arms. A striking feature of interior adornment is the arrangement of the electric lights, in a belt course, marking the second story floor, and outlining the arched entrance, above which the great seal of the State of New York, 10 feet high, is illuminated by a myriad of tiny lamps set close together. A second line of illumination accents the main cornice, and similar ones define the edge of the roof garden, and the arches, angles and cornices of the two belvideres. Finally, a cluster of lights illuminate the bases of the flag-poles. Within and without the building blaze 2,000 electric jets. In the main hall on the first floor, besides the beautiful fountains scattering their cooling sprays within the spacious porticoes, an object of unusual interest is a relief map nearly 20 feet in diameter of the State of New York, which of itself cost \$30,000. This main hall has a mosaic floor and is hung with imported silk hangings. Here are the parlors and toilet-rooms for men and women, postoffice, information and baggage-rooms. The grand stairway is of marble, and leads to the banquet hall, where the visitor can not fail to be impressed with the elegance of the surroundings. The beautiful arched ceiling, three stories high, is richly ornamented with designs of fruits done in stucco. On the third floor, in addition to twelve rooms for general purposes there is a gallery for a band of music.

NORTH CAROLINA.

Following are the members of the North Carolina State Board of Commissioners: W. F. Green, President, Franklinton; P. M. Wilson, Executive Commissioner, Winston; T. K. Bruner, Secretary and Commissioner of Exhibits, Raleigh; H. E. Fries, Salem; W. R. Capehart, Avoca; W. E. Stevens, Clinton; J. H. Gilmer, Greensboro; J. F. Payne, Alma; W. R. McClelland, Mooresville; J. B. Coffield, Everetts; C. D. Smith, Franklin; W. R. Williams, Falkland; Gov. Elias Carr, Ex-officio, Raleigh.

National Board Lady Managers: Mrs. Florence H. Kidder, Wilmington; Mrs. Charles Price, Salisbury. Alternates: Mrs. Sallie S. Cotten, Falkland; Miss V. Stella Divine, Wilmington.

National Commission: Alexander B. Andrews, Raleigh; Thomas B. Keogh, Greensboro. Alternates: H. C. Carter, Fairfield; G. A. Bingham, Salisbury.

North Carolina has no building, but the State makes collective exhibits in the Agricultural, Horticultural, Mines, Fisheries and Forestry departments.

NORTH DAKOTA.

Following are the members of the North Dakota State Board of Commissioners: Martin Hector, President, Fargo; D. R. McGinnis, Secretary, Grand Forks; Alfred Dickey, Executive Manager, Jamestown; Jacob A. Field, Bismarck; John M. Turner, Mandan; O. G. Meacham, Carrington.

National Board Lady Managers: Mrs. S. W. McLaughlin, Grand Forks; Mrs. W. D. McConnell, Fargo. Alternates: Mrs. Alice B. Brown, Lisbon; Mrs. Frances C. Holley, Bismarck.

National Commission: H. P. Rucker, Grand Forks; Martin Ryan, Fargo. Alternates: Charles H. Stanley, Steele; Peter Cameron, Tyner.

The headquarters for North Dakota visitors is a pretty, hospitable-looking building adjacent to that of Kansas. The building is 70x50 feet. A space 46x21 feet in front of the main assembly hall, between the two committee rooms, is used as a court-yard. From this court-yard the main assembly room is entered through a large stone arch, above which on the exterior is an elaborately carved panel containing the coat of arms of North Dakota. The main feature of the interior is the assembly hall, which includes a space 24x56 feet. The room is spanned by four broad arched beams between each of which is a wide window reaching from near the floor to the roof. At either end of the room is a broad fire place. Committee and toilet rooms are provided throughout the building. The structure is two stories high, and on the exterior the walls of the main gable ends are built of brick. The remainder of the walls are of timber, filled in between with plaster panels. North Dakota pays great attention to the exhibit of her principal product, wheat, but also makes a good showing in several other departments. The educational advantages of the State are fully presented, and her exhibit is among the best.

OHIO.

Following are the members of the Ohio State Board of Commissioners: W. W. Peabody, President, Cincinnati; Chas. M. Anderson, Vice-President, Greenville; W. T. Alberson, Secretary, Columbus; Lewis N. Bonham, Treasurer, Columbus; Daniel J. Ryan, Executive Commissioner, Columbus; Albert Schwill, Cincinnati; James W. See, Hamilton; Charles M. Harding, Franklin; David Hall, Bloom Center; A. O. Jones, Zanesville; A. C. Cummins, Mansfield; William E. Sefton, Canton; L. E. Holden, Cleveland; William Edwards, Cleveland; H. G. Baker, Defiance, P. M. Cullinan, New Lexington; Harvey P. Platt, Toledo; William Ritchie, Hamilton; Mrs. Mary Hart, Glendale; Mrs. Walter Hartpence, Harrison.

National Board Lady Managers: Mrs. Mary A. Hart, Glendale; Mrs. Walter Hartpence, Harrison. Alternates: Mrs. Harriett T. Upton, Warren; Mrs. Asa S. Bushnell, Springfield.

National Commission: Harvey P. Platt, Toledo; William Ritchie, Hamilton. Alternates: Lucius C. Cron, Piqua; Adolph Pluemer, Cincinnati.

The Ohio State Building is Colonial in style, two stories high, of wood and staff, with tile roof. The ground area is 100 feet front by 80 feet deep. The main entrance, on the east, is within a semi-circular Colonial portico, thirty-three feet high, the roof supported by eight great columns. The tile roof, mantels, finishing woods, and much of the visible material are the gifts of Ohio producers. The main entrance opens on a lobby, on the left of which is the women's parlor, and on the right a committee room. Occupying the central portion of the building is the reception hall, 23x36 feet, and 28 feet high, extending through to the roof. The coved ceiling of the hall is ornamented. Back of the reception hall is an open court, 36 feet square, inclosed on three sides, the north and south side being formed by the wings of the building. All of the north wing is occupied by the information bureau. The room is 30x50 feet, and is divided into offices by wire railings. In the south wing is the parlor for men, a writing room, a smoking room, and toilet rooms. On the second floor of the north wing is the assembly room, 30x42 feet. The second floor of the south wing has a press correspondents' room, servants' rooms, bed and bath rooms. The building cost \$35,000.

OREGON.

Following are the members of the Oregon State Board of Commissioners: George T. Myers, President, Portland; Phil Metschan, Treasurer, Salem; C. B. Irvine, Secretary, Salem; W. F. Matlock, Pendleton; J. R. Carroll, Portland; E. B. McElroy, Salem; C. W. Ayres, Ashland; Mrs. M. Peyton, Salem; Mrs. E. W. Allen, Portland; George W. McBride, Salem; Henry Klippel, Medford; M. Wilkins, Coburg; J. A. Wright, Sparta.

National Board Lady Managers: Mrs. E. W. Allen, Portland; Mrs. Mary Payton, Salem. Alternates: Mrs. Anna R. Riggs, Portland; Mrs. Hattie E. Sladden, Eugene City.

National Commission: Henry Klippel, Jacksonville; Martin Wilkins, Eugene City. Alternates: J. L. Morrow, Heppner; W. T. Wright, Union.

Oregon's Legislature made a large appropriation, but that State has no building. An exhibit is made in the Department of Horticulture.

PENNSYLVANIA.

Following are the members of the Pennsylvania State Board of Commissioners: G. Robert E. Pattison, President, Harrisburg; Louis A. Watres, Vice-President, Scranton; Robert E. Wright, Secretary, Harrisburg; J. S. Dillinger, Assistant Secretary, Harrisburg; Rodney A. Mercur, Treasurer, Towanda; A. B. Farquhar, Executive Commissioner, Harrisburg; John A. Woodward, Deputy Executive Commissioner, Harrisburg; Wilson M. Gearhart, Chief Clerk, Harrisburg; Albert J. Barr, Pittsburg; Luther S. Bent, Steelton; E. A. Bigler, Clearfield; Thomas Bradley, Philadelphia; Robert L. Brownfield, Philadelphia; John I. Carter, Chatham, Chester County; W. W. Clendenin, New Castle; L. Clarke Davis, Philadelphia; Lewis Emery, Jr., Bradford; P. Foley, Pittsburg; J. P. S. Gobin, Lebanon; James M. Guffey, Pittsburg; Wm. B. Gill, Philadelphia; J. K. P. Hall, St. Mary's, Elk County; Wm. Hasson, Oil City; Joel A. Herr, Cedar Springs, Clinton County; Mrs. Mabel Cronise Jones, Harrisburg; Mrs. Harriet Anne Lucas, Philadelphia; H. J. McAteer, Alexandria; Miss Mary E. McCandless, Pittsburg; Towanda; Thomas P. Merritt, Reading; Simon Muhr, Philadelphia; Robert Purvis, Philadelphia; R. Bruce Ricketts, Wilkesbarre; Geo. N. Riley, Pittsburg; A. G. Roenigk, Pittsburg; Roger S. Searle, Montrose; A. W. Taylor, Philadelphia; Mrs. Ida A. Elkins Tyler, Philadelphia; C. C. Thompson, Warren; Joseph C. Walker, Gap, Lancaster County; Benjamin Whitman, Erie; P. A. B. Widener, Philadelphia; Edward H. Williams, Philadelphia; Morgan B. Williams, Wilkesbarre; John W. Woodside, Philadelphia; Mrs. Matilda Holt Shelton, Commissioner of Woman's Work, Philadelphia.

National Board Lady Managers: Miss Mary E. McCandless, Pittsburg; Mrs. Harriett Anne Lucas, Philadelphia. Alternates: Mrs. Samuel Plumer, Franklin; Mrs. W. S. Elkins, Philadelphia.

National Commission: R. B. Ricketts, Wilkesbarre; John W. Woodside, Philadelphia. Alternates: Geo. A. Macbeth, Pittsburg; John K. Hallock, Erie.

The Pennsylvania State Building is in the colonial style of architecture, while the front is an exact reproduction of old Independence Hall, having its entrances, bell-tower and spire. Independence bell hangs in the rotunda. The rotunda within the entrance is finished in tile and slate, like the old hall. The building is rectangular in form, two stories high, with a ground area of 110x166 feet. The corners of the front are quarter-circled in. Piazzas 20 feet wide surround the building, and over them are verandas, with protecting balustrade. Outside staircases, right and left to the rear, lead to the garden on the roof. This roof is covered with American-made tin produced in Philadelphia. The outer walls to the roof line are of Philadelphia pressed brick. Above the main entrance is the coat-of-arms of the state in bas-relief, and on either side of it are heroic statues of Penn and Franklin. The front is further ornamented with two free groups of statuary, one emblematic of the arts and sciences, the other of mines and manufacture. The interior finishing represents, in the floors, native marble and hard woods from Pennsylvania, and the walls are wainscoted in wood, frescoed, and heavily corniced. The women's rooms are finished in maple, and the men's in oak. The walls of the women's rooms are ornamented with mural paintings by Pennsylvania women. All the ceilings are of stamped metal, and the staircases are of quartered oak. On the main floor is the reception room, 33x56 feet, and on either side are parlors for men and women. On the second floor are rooms for the Governor, the press correspondents, the treasurer of the commission, and the board of commissioners. There are three bedrooms in the tower. The building is supplied with 800 electric lights, and cost \$80,000.

The following interesting relics are on exhibition in the Pennsylvania Building: Portraits of William Penn; Hannah, his wife and a chair owned by Penn; a

punchbowl used by Washington during the Revolution; portrait of Washington painted when he was commander in chief of the Continental army; portrait of Thomas Johnston, who made the motion to have Washington appointed commander-in-chief; plaster cast of Washington; Gen. Anthony Wayne's sword; silver lamp used in Philadelphia during the Revolution; bootjack and appliance left by a British officer at the home of Joseph Martin, Philadelphia, at the time of the evacuation; fork and spoon from Valley Forge; waistcoat worn at republic-can court; lace scarf pin worn by Mrs. John Adams when she sat to Stuart for her portrait; model of the ship Constitution; portrait of Chevalier Gerard, first French minister to the United States; watch and vest and stockings worn by Charles Carroll when he signed the Declaration of Independence; hymn book printed in Germantown in 1772; manuscript of the first prayer in Congress in the penmanship of John Hancock; chair used by John Hancock, first President of Congress, and also his sword and desk. The Old Liberty Bell is placed on a handsome raised platform built on rollers, so that in case of fire it can be rolled into the open air in three minutes' time.

RHODE ISLAND.

Following are the members of the Rhode Island State Board of Commissioners: E. Benjamin Andrews, President, Providence; Arthur H. Watson, Vice-President, Providence; Charlotte F. Dailey, Secretary and Treasurer, Providence; John C. Wyman, Executive Commissioner, Providence; John P. Sanborn, Newport; Hiram Howard, Providence; Walter A. Peck, Providence; Marsden J. Perry, Providence; Daniel B. Pond, Woonsocket; Richard Thornley, Greenwich.

National Board Lady Managers: Mrs. Amey M. Starkweather, Pawtucket; Miss Charlotte F. Dailey, Providence. Alternates: Mrs. George A. Mumford, Pawtucket; Miss Loraine P. Bucklin, Providence.

National Commission: Lyman B. Goff, Pawtucket; Gardiner C. Sims, Providence. Alternates: Jeffrey Hazard, Providence; Lorillard Spencer, Newport.

The Rhode Island Building cost \$8,000. It is after the Greek manner, with columnar porticos on four sides of the building, that on the west or front side semi-circular in plan, with arched openings between the Ionic pilasters, the latter being of the full height of the two stories.

The building is amphiprostyle in that the north and south porches—each of the full width of the building—consist of four fluted Ionic columns, each 24 inches in diameter and 21 feet high, while the rear entrance is between Ionic fluted pilasters, the same as in front.

The columns are surmounted by an enriched Ionic entablature with decorated moldings, modillions and dentils, and above the entablature the building is finished with a balustrade surrounding the four sides of the roof, with ornamental urns over each pedestal in the balustrade. The building has ground area of 32x59 feet, two stories high, in wood and staff, in imitation of granite. Entrance is had to the building from all sides through French windows opening to the floor. The main hall is 18x25 feet, and is open in the roof. The parlor for women and the secretary's office are on the first floor. On the second floor are two committee rooms and a gallery around the main hall. The Governor's room occupies what may be called the second story of the porch on the west front. All the floors are hard wood, and the interior is furnished in cypress.

SOUTH CAROLINA.

National Board Lady Managers: Miss Florida Cunningham, Charleston; Mrs. E. M. Brayton, Columbia. Alternates: Mrs. Clark Waring, Columbia; Mrs. C. A. Perry, Walhalla.

National Commission: A. P. Butler, Columbia; John R. Cochran, Walhalla. Alternates: E. L. Roche, Charleston; J. M. Tindal, Sumter.

The South Carolina Legislature voted adversely on the question of making an appropriation, therefore that State has no building. An exhibit is made in the Department of Mines and Mining.

SOUTH DAKOTA.

Following are the members of the South Dakota State Board of Commissioners: L. G. Ochsenreiter, President, Webster; T. H. Brown, Secretary, Sioux Falls; W. W. Taylor, Treas-

urer, Redfield; C. E. Hinds, Woonsocket; William M. Powers, Yankton; F. T. Evans, Sr., Hot Springs; P. F. McClure, Pierre; J. E. Pilcher, Custer City; John Baker, Deadwood; T. G. Quarve, Langford.

Women's World's Fair Commission: Mrs. Wm. Duff Haynie, President, Rapid City; Mrs. J. S. Oliver, Vice-President, Huron; Mrs. L. Q. Jeffries, Secretary, East Pierre; Mrs. John E. Bennett, Treasurer, Clark; Mrs. A. C. Mellette, Watertown; Mrs. W. A. Burleigh, Yankton; Mrs. Geo. A. Silsby, Mitchell; Mrs. J. A. Trow, Madison; Mrs. Marie J. Gaston, Deadwood.

National Board Lady Managers: Mrs. John R. Wilson, Deadwood; Mrs. H. M. Barker, Huron. Alternates: Mrs. C. E. Daniels, Watertown; Mrs. Marie J. Gaston, Deadwood.

National Commission: Merritt H. Day, Rapid City; William McIntyre, Watertown. Alternates: S. A. Ramsey, Woonsocket; L. S. Bullard, Pierre.

The South Dakota State Building has a ground area of 70x126 feet, and is two stories high and cost \$20,000. The structure is frame, the exterior being covered with Yankton cement, in imitation of stone work. The roof is corrugated iron and the cornice and brackets are pressed zinc. The main entrance is on the east, along which front extends a wide porch with heavy columns supporting a balcony from the second story. On the left of the main entrance is a women's parlor, on the right a men's reception room. In the main body of the building is the exhibition hall, 44x58 feet. Six feet above the main floor is an entresol, having committee rooms for the boards of commissioners. In the northwest corner of the main floor is a room for press correspondents. The rotunda in the center of the building extends through to the roof and is covered with a skylight. The second floor is devoted to rooms for the women's exhibit and special State exhibits.

TENNESSEE.

National Board Lady Managers: Mrs. Laura Gillespie, Nashville; Mrs. Susan Gale Cooke, Knoxville. Alternates: Mrs. Carrington Mason, Memphis; Mrs. J. J. McClung, Knoxville.

National Commission: Lewis T. Baxter, Nashville; Thomas L. Williams, Knoxville. Alternates: Rush Strong, Knoxville; A. B. Hurt, Chattanooga.

The Tennessee Legislature failed to make an appropriation, hence there is no State Board of Commissioners nor State building. The mining town of Harri-man makes an exhibit in the Mines Building, but otherwise there is no collective exhibit shown.

TEXAS.

Following are the members of the Texas State Board of Commissioners: H. B. Andrews, President, San Antonio; William F. Ladd, 1st Vice-President, Galveston; A. C. Herndon, 2d Vice-President, Houston; D. D. Bryan, Secretary, Galveston; W. L. Moody, Treasurer, Galveston; R. B. Parrott, Waco; W. C. Connor, Dallas; J. S. Rice, Hyatt; J. N. Browning, Clarendon; Julius Runge, Galveston; George Mann, Galveston; John Adriance, Galveston; Walter Gresham, Galveston; Mrs. W. H. Tobin, President State Board of Lady Managers, Austin; Mrs. Rosine Ryan, Lady Manager-at-large, Austin.

National Board Lady Managers: Mrs. Ida L. Turner, Fort Worth; Mrs. Mary A. Cochran, Dallas. Alternates: Mrs. K. C. McDaniel, Anderson. (Vacancy.)

National Commission: Archelaus M. Cochran, Dallas; John T. Dickinson, Austin. Alternates: Lock McDaniel, Anderson; Henry B. Andrews, San Antonio.

Texas has erected a handsome building on the right of the north entrance to the Exposition grounds, and this notwithstanding the failure of the State Legislature to make an appropriation on account of constitutional prohibition. The money for the structure was raised by the Women's World's Fair Exhibit Association of Texas, with headquarters at Austin, the State capital. General regret was expressed when the solons of the Lone Star State failed to make a suitable appropriation for the representation of the resources of that great commonwealth. Mr. John T. Dickinson, the efficient secretary of the National Commission, is a resident of Texas, and he did all in his power to bring about a more favorable and extensive exhibit from his native and beloved State. He wrote numerous articles for the Texas newspapers, traveled and spoke all over the State, induced other prominent Exposition officials to help him in the work of creating a sentiment which would crystallize into favorable action by the law-making powers, and was materially aided in his efforts by numerous prominent citizens of Texas, but to the chagrin and disappointment of thousands of pro-



W. B. Conkey Co. (N.Y.)

JOHN P. ALTGELD,
GOVERNOR OF ILLINOIS.

gressive and enterprising Texans, as well as to their numerous friends all over the country, the appropriation failed to pass, and Texas, once an entire republic itself and now one of the finest, best and most progressive in the galaxy of the States of this union, is not represented at the Fair in such manner as becomes its grandeur. All credit, however, to the noble band of ladies of the Exhibit Association for what Texas *has* to show. In the treatment of the design of the Texas Building the architect has not deflected from the history of the Lone Star State, which, from its foundation, has been marked by a Spanish tinge, whose architectural inclination and handsome botanical effects lay down a chain of thought far too beautiful to be forsaken for that of the present day; therefore, the building was designed for colonnades, grounds, fountains, foliage, etc. It contains an assembly room 56 feet square, 28 feet high, provided with art glass skylight in the ceiling, with a mosaic Texas star in the center. The rostrum, ante-rooms, etc., are furnished in the natural woods of Texas. One wing contains rooms for bureau of information, register, messenger, telephone, telegraph, directors, Texas Press Association headquarters, commissioners, historical museum and library, toilet rooms, county collective exhibits, etc. The main entrances are through vestibules, flanked on either side by niches and colonnades. The main vestibules terminate in a large auditorium, connecting with the rooms mentioned.

VERMONT.

Following are the members of the Vermont State Board of Commissioners: Gov. L. K. Fuller, Brattleboro, Ex-officio; H. H. McIntyre, Secretary, Treasurer and Executive Commissioner, West Randolph; B. B. Smalley, President, Burlington; A. J. Sibley, Montpelier; A. F. Walker, Chicago, Ill.; Mrs. Ellen M. Chandler, Pomfret; Mrs. Elizabeth V. Grinnell, Burlington; Mrs. Theresa J. Cochran, Groton; Mrs. Mina G. Hooker, Brattleboro.

National Board Lady Managers: Mrs. Ellen M. Chandler, Pomfret; Mrs. Elizabeth V. Grinnell, Burlington. Alternates: Mrs. M. G. Hooker, Brattleboro; Mrs. T. J. Cochrane, Groton.

National Commission: Henry H. McIntyre, West Randolph; Bradley B. Smalley, Burlington. Alternates: Aldace F. Walker, Rutland; A. J. Sibley, Montpelier.

The Vermont State Building is one of the most unique and original on the grounds. On the right and left of the steps on the facade rise two shafts, on which are allegorical figures representing the industries of agriculture and quarrying—the two principal industrial activities of the State. One enters through a columned portico into a courtyard, on the right and left of which are covered porches with broad seats. Just off these are the reception rooms in front and committee room, postoffice, etc., in the rear. In the center of the court is a handsome marble fountain. Marble from the quarries of the State is used all through the interior of the building. Facing the end of the court is a porch, supported by four carytids, over which is a semicircular Greek window with bas-relief around it representing "Freedom and Unity." The coat-of-arms is in the center. The reception hall, which is located in the rear, is circular in form, with a colonnade around, and a wooden dome surmounts the structure. All is colored according to a Pompeiian scheme. The building is Pompeiian in style and of classic detail, and furnishes a most unique contrast to the other buildings.

VIRGINIA.

Following are the members of the Virginia State Board of Commissioners: A. S. Buford, President, Richmond; John L. Hurt, Vice-President, Hurt's Store; T. C. Morton, Secretary, Richmond; M. S. Quarles, Treasurer, Richmond; John S. Apperson, Executive Business Commissioner, Richmond; Dr. A. Brockenbrough, Chesapeake; M. Glennan, Norfolk; Geo. B. Finch, Boydton; W. I. Jordan, South Boston; J. N. Brenaman, New Market; Grenville Gaines, Warrenton; Martin Williams, Bland C. H.; J. H. H. Figgatt, Fincastle; Mrs. Lucy P. Beale, Buchanan; Mrs. F. J. Leigh, Norfolk.

National Board Lady Managers: Mrs. John S. Wise, Richmond; Mrs. K. S. G. Paul, Harrisonburg. Alternates: Miss Mattie P. Harris, Staunton; Mrs. M. H. Harrison, Westover.

National Commission: Virginius D. Groner, Norfolk; John T. Harris, Harrisonburg. Alternates: Charles A. Heermans, Christiansburg; Alexander McDonald, Lynchburg.

A very unique structure has been erected for Virginia, at a cost of \$25,000. It covers an area of 175x185 feet, and lies near the lake and opposite the Mary-

land Building. The structure is an exact representation of the Mount Vernon mansion in Fairfax county, Virginia, near Washington city, the building in which George Washington lived and died. It got into his hands from his brother, Lawrence Washington, and was built in the early part of the last century by his father. The main building is 94x32 feet, two stories and an attic and a two-story portico, with large columns extending along the whole front, being 94 feet long, 13 feet high and 14 feet wide. The portico extends up to the cornice of the roof, has an ornamental railing around the top and is furnished with settees along the whole length next the wall. There are two colonnades running back from each wing of the building to the rear about 20 feet long, 9½ feet wide and 11 feet high, connected each with a one-and-a-half story structure, 40x20 feet. These are called the dependencies. Altogether there are twenty-five rooms in the structure. On the first and second floors of the main building there are eleven rooms, in the attic six, and in each of the dependencies four rooms. The largest rooms in the house are the banquet hall, 31x23 feet, and the library 16x19 feet, the main entrance hall, Washington's chamber, in which he died, upon the second floor, and Mrs. Washington's chamber in the attic, to which she removed after her husband's death and which she occupied during the remainder of her life on account of its being the only room in the house which looked out upon his tomb. The apartments average upon the first floor 17x17 feet, upon the second 17x13 feet. The height of the first story is 10 feet 9 inches; of the second, 7 feet 11 inches; of the attic, 6 feet 9 inches. The distance from the ground to the top of the cupola is 50 feet. In the main hall is a large stairway four feet wide, ascending by platforms to the floors above. On the first platform of the stairway there is an old Washington family clock, a very interesting historical relic. This hall is furnished with antique sofas and pictures of the last century. The rooms upon the first floor are ornamented by heavy carved and molded wood trimmings and handsome mantles, very antique. This Virginia Building is not only an exact representation in every particular of the old Mount Vernon structure, but everything within it is also of the same character. Nothing modern is seen in the building, except the people and the library of books by exclusively Virginia authors. As far as could be done the building was furnished with articles which were collected from all over the state, the heirlooms of old Virginia families, and with portraits of the same character. Whatever may be lacking in furnishing the building with articles of this character is supplied with furniture made after the same old fashion. The building is presided over by the Lady Assistant of the Virginia Board, Mrs. Lucy Preston Beale, a daughter of Hon. Ballard Preston and a grand-daughter to General Preston, a former Governor of Virginia. She has for the attendants in the building old Virginia negroes, and undertakes to represent in every particular an old Virginia home of the Colonial period. There is a very rare collection of relics of Colonial times and of the Revolutionary War, and everything which is antique, among which is exhibited a copy of the original will of George Washington. The library is furnished entirely with books written by Virginians or relating to Virginia, quite a large collection of which has been made, and ornamented with old Virginia portraits, views and other relics of the Colonial period and the last century. Altogether the building with its furnishings is unequalled in its character and appointments and nothing like it will be found elsewhere except at Mount Vernon itself.

WASHINGTON.

Following are the members of the Washington State Board of Commissioners: N. G. Blalock, President, Walla Walla; S. B. Conover, Vice-President, Port Townsend; P. C. Kauffman, Secretary, Tacoma; G. V. Calhoun, Executive Commissioner, La Conner; P. W. Rochester, Assistant Executive Commissioner, Seattle; L. R. Grimes, Ellensburg; W. L. La Follette, Pullman; T. H. Cavanaugh, Olympia; C. H. Ballard, Concomully.

Washington Board of Lady Managers: Mrs. Alice Houghton, President, Spokane; Mrs. C. W. Griggs, Secretary, Tacoma; Mrs. M. D. Owings, Olympia; Mrs. Josephine Ettinger, Palouse City.

National Board Lady Managers: Mrs. M. D. Owings, Olympia; Mrs. Alice Houghton, Spokane. Alternates: Mrs. C. W. Griggs, Tacoma; Mrs. J. H. Stimson, Colfax.

National Commission: Henry Drum, Tacoma; Charles B. Hopkins, Spokane Falls. Alternates: Geo. F. Cummin, Cheney; Clarence B. Bagley, Seattle.

The Washington State Building embraces a main hall, space 118x72 feet, to which are connected two wings, 118x40 feet, and cost \$100,000. The main entrance on the east, and from each corner of the main structure square towers rise up, inclosing staircases to galleries. These galleries are 52x15 feet, overlooking the main hall. The east entrance of the building is under a great stone arch, which is the only stonework about the structure. This arch is built of alternate blocks of gray tinino, blue chuckanut, and white Pittsburg stone. Foundations of the buildings are of great fir logs, laid five deep. Two base logs at the north and south ends are each 127 feet long, and after having been slabbed off very deeply are still eight feet in diameter at the butt ends. The heavier of these weighs 36,000 pounds and occupied four flat cars in transit. In squaring three sides enough lumber was cut away to build a good-sized cottage, while in the log itself is material for a big house. These logs have all been squared on three sides, presenting a rounded surface to the outside. These are left in their natural state. The largest of these sections was cut from trees 600 feet in height, which had not a branch less than 150 feet from the earth. This foundation constitutes a timber exhibit from Washington. The two wings form a single room each, and are devoted to State exhibits. Nearly all of the first floor of the main building is devoted to a reception room, while in the second story are committee rooms, parlors, reception and toilet rooms. The roof is of shingles, and the interior is finished in cedar and fir. All of the material used in the building comes from Washington, the lumber coming from Puget Sound, while the main entrance, an important decorative feature, is of granite, marble, and ore from quarries within the State. The sky-reaching flag-staff, 208 feet in height, was first 236 feet in length. It is of native timber, and weighs 32 tons. To her sister States Washington has donated about 40 flag-poles, ranging from 100 to 125 feet in length, placed in front of their respective headquarters. At first view the Washington Building, with its quaint towers, reminds one of a Holland residence and windmill. It is unlike any other structure on the grounds, and sure to invite favorable attention. The commissioners have spent \$100,000 in collecting a State exhibit.

WEST VIRGINIA.

Following are the members of the West Virginia State Board of Commissioners: W. N. Chancellor, President, Parkersburg; M. C. McKay, Secretary, Parkersburg; George M. Bowers, Treasurer, Martinsburg; R. S. Carr, Charleston; John S. Naylor, Wheeling; Sidney Haymond, Quiet Dell.

National Board Lady Managers: Mrs. W. Newton Linch, Martinsburg; Miss Lily Irene Jackson, Parkersburg. Alternates: Mrs. G. W. Z. Black, Halls town; Miss Annie M. Mahan, Fayetteville.

National Commission: James D. Butt, Harper's Ferry; J. W. St. Clair, Fayetteville. Alternates: John Corcoran, Wheeling; Wellington Vrooman, Parkersburg.

The West Virginia Building is in the Colonial style, two stories high, with a pitched roof, the outer walls being weatherboarded and painted, and cost \$20,000. It is representative of the West Virginia residence. The roof is shingled. The interior is finished in hard wood the walls are plastered, and the ceilings are of ornamental iron work from Wheeling. All of the exposed material in the building is the product of the State. The main entrance is on the west, on a platform porch. Above the entrance is the coat of arms of the State in bas-relief. Within the entrance is a vestibule, with rooms for the boards of commissioners on either side. Beyond the vestibule is a large reception hall flanked by parlors for women and men. Back of these parlors are toilet and retiring rooms. On the second floor front are two committee rooms, and the balance of the floor constitutes an assembly room and reception hall 34x76 feet in size. There are four large fireplaces in the building, two on each floor, with very handsome carved wood mantels. The building has a ground area of 58x123 feet.

WISCONSIN.

Following are the members of the Wisconsin State Board of Commissioners: A. Ledyard Smith, President, Appleton; Hugh H. Price, Vice-President, Black River Falls; Chas. W. Graves, Secretary, Viroqua; John H. Savage, Treasurer, Shullsburg; Robert B. Kirkland, Executive Commissioner, Jefferson; Phillip Allen, Jr., Mineral Point; Mrs. John Winans, Janesville; Harry B. Sanderson, Milwaukee; Mrs. Geo. C. Ginty, Chippewa Falls; Mrs. William Pitt Lynde, Milwaukee; John M. Coburn, West Salem; William Rahr, Manitowoc.

National Board Lady Managers: Mrs. Flora B. Ginty, Chippewa Falls; Mrs. William P. Lynde, Milwaukee. Alternates: Mrs. S. S. Fifield, Ashland; Mrs. J. M. Smith, Mineral Point.

National Commission: Phillip Allen, Jr., Mineral Point; John N. Coburn, West Salem. Alternates: David W. Curtis, Fort Atkinson; Myron Reed, Superior.

In architecture, this building represents the Wisconsin home, being designed in no special style. All the visible material comes from Wisconsin. The exterior is of Ashland brown stone, Menomonee pressed brick, and hard woods from various sections of the State. The roof is covered with dimension shingles. The window glass is plate. It is practically three stories high, but apparently only two, one story being in the roof. Its ground area is 80x90 feet, exclusive of the verandas on the east and west, which are 18 feet wide. The semicircular verandas on the north and south are entered only from the interior of the building. The second and third stories have verandas on the east and west. The main entrance faces the east and is 18 feet wide. The interior is finished entirely in oiled hard wood. The first floor is tiled and the ceiling is paneled in hard wood. On this floor are three fire-places, with mantels in oak and maple. The first floor has a large reception room, men's and women's parlors and toilet rooms, an intelligence office and a postoffice. The second floor has a historical room, and offices for the commissioners. On the west side of the floor is a large stained glass window, presented by the city of West Superior. This beautiful piece of workmanship is much admired by all. On this floor are two very elegant mantels in pressed brick. The third floor contains eight large bedrooms. Taken altogether, this structure is one of the most tasty and convenient on the grounds. The building cost \$30,000.

WYOMING.

Following are the members of the Wyoming State Board of Commissioners: John S. Harper, President, Sundance; Elwood Mead, Secretary, Cheyenne; John McCormick, Treasurer, Sheridan; Frank O. Williams, Saratoga; L. D. Ricketts, Cheyenne.

National Board Lady Commissioners: Mrs. F. H. Harrison, Evanston; Mrs. Francis E. Hall, Cheyenne. Alternates: Mrs. Elizabeth A. Stone, Evanston; Miss Gertrude M. Huntington, Saratoga.

National Commission: Asahel C. Beckwith, Evanston; Henry G. Hay, Cheyenne. Alternates: Asa S. Mercer, Cheyenne, John J. McCormick, Sheridan.

The Wyoming Building is in style a modern club house. The dimensions are 70 feet in length, by 60 feet in width. It is located in the extreme north end of the grounds, commanding an interesting view across the park-like portions of the grounds reserved for State buildings. It is also convenient to the steam-boat landing. The interior arrangement consists of a main hall 24x40 feet, with two offices on the first floor, which are used for the reception and entertainment of visitors, while the collective exhibit is placed in the main hall. From here a circular stairway ascends to the second story, where the toilet rooms are located. The gallery around the hall and doors leads out upon the balconies on each of the four sides. The building is in the French chateau style, and the panels of the main frieze exterior contain elaborately wrought hunting and pastoral scenes. The people of Wyoming realize that the Exposition offers an unusual opportunity to make known to the world the varied material resources of their State; her coal lands, wells of oil, soda deposits and rich mines of iron and precious metals. The exhibit is arranged with the object of showing forth the advantages of the State, both to home-seekers of limited means and capitalists seeking fields of investment. To this end the classification includes Wyoming's best specimens of wheat, corn, oats, barley, rye, buckwheat, native and cultivated grasses and forage plants. Irrigation methods are illustrated with maps and

diagrams. The live stock exhibit includes the best specimens of blooded horses and cattle, and illustrations of methods of handling range horses, cattle and sheep. The committee on horticulture and floriculture have made their departments as complete as possible, representing all perishable articles by fac-similes in wax or plaster. Specimens of the present and extinct animal life of the State petrefactions, Indian implements, dress, and ornaments have been carefully collected by the committee on scenic exhibits, and form a most interesting feature of the State's contribution. The committee also endeavors by means of paintings, photographs and models, to illustrate other striking features of Wyoming and its leading industries.

ALASKA.

National Board Lady Managers: Mrs. A. K. Delaney, Juneau; Mrs. Isabella J. Austin, Sitka. Alternates: Miss Maxwell Stevenson, Juneau; Mrs. Lena Vanderber, Sitka.

National Commission: Edward de Groff, Sitka; Louis L. Williams, Juneau. Alternates: Carl Spuhn, Killisnoo; N. A. Fuller, Juneau.

This Territory has no Territorial Commissioners; and while it has no building, exhibits are made in the United States Government Building under the auspices of the Interior Department.

ARIZONA, NEW MEXICO AND OKLAHOMA.

[These territories have a building jointly, described below.]

Following are the members of the Arizona State Board of Commissioners: S. P. Behan, President, Prescott; Will C. Barnes, Vice-President, Holbrook; R. C. Brown, Treasurer, Tucson; W. K. Mead, Tombstone, George F. Coates, Phoenix; Miss Lorette Lovell, Tucson; Mrs. T. J. Butler, Prescott.

National Board Lady Managers: Mrs. Thomas J. Butler, Prescott; Miss Laura Lovell, Tucson. Alternates: Mrs. George Hoxworth, Flagstaff; Mrs. H. J. Peto, Tombstone.

National Commission: George F. Coates, Phoenix; Wm. K. Meade, Tombstone. Alternates: W. L. Van Horn, Flagstaff; Herbert H. Logan, Phoenix.

Following are the members of the New Mexico Territorial Board of Commissioners: W. T. Thornton, President, Santa Fé; Miguel Salazar, Vice-President, Las Vegas; W. H. H. Llewellyn, Secretary, Las Cruces; E. V. Chavez, Treasurer, Socorro; Alice B. Montgomery, Assistant Secretary, Eddy; E. B. Mills, Superintendent of Exhibits, Las Vegas.

National Board Lady Managers: Mrs. Cora L. Bartlett, Santa Fé; Mrs. Franc L. Albright, Albuquerque. Alternates: Mrs. Louisa D. Campbell, Eddy; Miss Lucia Paria, Albuquerque.

National Commission: T. C. Gutierrez, Albuquerque; R. M. White, Hermosa. Alternates: Louis C. Tetard, Las Vegas; C. B. Eddy, Eddy.

Following are the members of the Oklahoma Territorial Board of Commissioners: Gov. A. J. Seay, President, Guthrie; Mort. Bixler, Vice-President, Norman; H. C. St. Clair, Treasurer, Kingfisher; Miss Mattie B. Kelso, Secretary, El Reno; A. C. Scott, Executive Commissioner, Oklahoma City; Lyman Cone, Superintendent of Exhibits, Guthrie; C. A. Holit, Beaver City; Miss May I. Overstreet, Beaver City; Mrs. Mort. Bixler, Norman; Mrs. H. C. St. Clair, Kingfisher; E. L. Hallock, Guthrie; Mrs. C. M. Barnes, Guthrie; W. D. Holloman, Oklahoma City; Mrs. A. M. Halloman, Oklahoma City; J. E. Sater, Stillwater; Mrs. J. E. Sater, Stillwater; Rev. J. H. Buchanan, Chandler; Mrs. J. H. Buchanan, Chandler; Dr. Chas. W. Kirk, Tecumseh; Mrs. Chas. W. Kirk, Tecumseh; A. L. Goddard, El Reno.

National Board Lady Managers: Mrs. M. P. H. Beeson, Reno City; Mrs. Genevive Guthrie, Oklahoma City. Alternates: Mrs. Julia Wallace, Oklahoma City; Mrs. Mary S. McNeal, Guthrie.

National Commission: Othneil Beeson, Reno City; Frank R. Gammon, Guthrie. Alternates: John Wallace, Oklahoma City; Joseph W. McNeal, Guthrie.

The joint building of the Territories of Arizona, New Mexico and Oklahoma occupies an advantageous location among the other State and Territorial buildings in the north end of the grounds. It is two stories in height, 28 feet over all, and has a frontage of 90 feet. It is ornamental in design and of a composite character, the lower story being supported by Doric columns. The main building is divided into three departments, one floor for each Territory, each department having a grand reception room in the center, flanked on each side by parlors. The offices of the commissioners are grouped around the main reception rooms, dividing them from the parlors on each side. It is a frame building, finished in acme cement plaster, and is used for various exhibits as well as for the general headquarters.

UTAH.

Following are the members of the Utah Territorial Board of Commissioners: R. C. Chambers, President, Salt Lake City; Richard Mackintosh, Vice-President, Salt Lake City; E. A. McDaniel, Secretary, Ogden; Heber M. Wells, Treasurer, Salt Lake City; N. A. Empey, Executive Commissioner, Salt Lake City.

Territorial Board Lady Managers: Mrs. F. S. Richards, President, Salt Lake City; Mrs. F. D. Richards, Vice-President, Ogden; Mrs. Electa Bullock, Provo; Mrs. C. W. Lyman, Salt Lake City; Mrs. G. W. Thatcher, Logan; Miss May Preston, Secretary, Salt Lake City.

Salt Lake County World's Fair Association: Executive Board: Mrs. E. B. Wells, President; Mrs. G. Y. Wallace, 1st Vice-President; Mrs. Priscilla Jennings, 2d Vice-President; Mrs. Margaret A. Caine, Secretary; Miss Emma McCormick, Assistant-Secretary; Mrs. Bertha Bamberger, Treasurer; Mrs. C. E. Allen, Mrs. Ann D. Groesbeck, Mrs. Sarah Boggs, Mrs. Kate Smith, Mrs. Amelia F. Young.

National Board of Lady Managers: Mrs. M. B. Salisbury, Salt Lake City; Mrs. T. A. Whalen, Ogden. Alternates: Miss Maggie Keogh, Salt Lake City; Mrs. Susan B. Emery, Park City.

National Commission: P. H. Lannan, Salt Lake City; Fred J. Kiesel, Ogden. Alternates: Charles Crane, Kanosh; Wm. M. Ferry, Park City.

The Utah Building is frame covered with staff. It is two stories high, and has an area of 46x82 feet. In style the facade is modern Renaissance. The foundation, columns, pilasters, cornice and other ornamental parts are made in imitation of the different kinds of stone in Utah. The walls are lined off in imitation of adobes. On the first floor is an exhibit hall, 41x45 feet, open to the roof and covered with a skylight. In the rear of this hall is a circular bay, and in this is the main stairway.

This building has chaste and simple outlines, and is an ornament to the grounds, standing as it does among the other state edifices, and lending its handsome exterior to the group. It is a worthy illustration of the taste of the people of that territory, and will attract the visitor by its novelty.

Its interior is planned with a special view to the comfort of those who make it their headquarters. The two stories are laid out in nearly the same fashion, comprising on the first floor several rooms for the use of the commissioners. A reception room is placed here, as also the secretary's office, and women's parlor. The second floor is similar in arrangement to the first, there being an exhibition room, 41x45 feet, and various office rooms. The building cost \$15,000.



COMMISSIONERS FROM FOREIGN COUNTRIES.

- | | | |
|--|---|--|
| 1. SIR HENRY WOOD,
<i>Great Britain.</i> | 2. HON. ADOLPH WERMUTH,
<i>Germany.</i> | 3. ASTERE VERCROYSE,
<i>Belgium.</i> |
| 4. H. E. IMPERIAL CHAMBERLAIN
P. DE GLOUKHOVSKOY,
<i>Russia.</i> | 5. IBRAHIM HAKKY BEY,
<i>Turkey.</i> | 6. H. E. MARSHAL JOSE SIMEAO DE
OLIVERIA,
<i>Brazil.</i> |
| 7. H. E. SENOR DON ENRIQUE DUFUY
DE LOME,
<i>Spain.</i> | 8. HON. S. TEGIMA,
<i>Japan.</i> | 9. HON. ANTON VON PALITSCHKE-
PALMFORST,
<i>Austria.</i> |
| 10. CHR. RAVN,
<i>Norway.</i> | 11. ARTHUR LEFFLER,
<i>Sweden.</i> | 12. HON. DR. ARTHUR RENWICK,
<i>New South Wales.</i> |
| 13. HON. J. J. GRINLINTON,
<i>Ceylon.</i> | 14. J. J. QUELCH,
<i>British Guiana.</i> | 15. HON. FREDERICK DOUGLAS,
<i>Hayti.</i> |



COMMISSIONERS FROM FOREIGN COUNTRIES.

1. PROF. VULKS I. SHOPOFF,
Bulgaria.
4. DR. FRANCISCO BUSTAMANTE,
Venezuela.
7. WM. E. ROTHERY,
Liberia.
10. T. PAREDES,
Columbia.
13. J. S. LARKE,
Canada.

2. L. WEINER,
Cape Colony.
5. E. SPENCER PRATT,
Persia.
8. COL. M. N. ARIZAGA,
Ecuador.
11. SR. D. MANUEL M. DE PERALTA,
Costa Rica.
14. ARNOLD HOLLINGER,
Switzerland.

3. PHRA. SURIYA NUVAT,
Siam.
6. GEORGE BIRKOFF,
Netherlands.
9. MILTON O. HIGGINS,
Curacao.
12. DR. EMIL HASSLER,
Paraguay.
15. SIGNOR V. ZEGGIO,
Italy.

FOREIGN PARTICIPATION.

The foreign countries which are officially participating in the Exposition are as follows. The total amount of their appropriations is over \$6,000,000:

Argentine Republic,	Cape Colony,	Netherlands,
Austria,	Ceylon,	Curaçao,
Belgium,	India,	Norway,
Brazil,	Jamaica,	Orange Free State,
Bulgaria,	New South Wales,	Paraguay,
Chili,	Trinidad,	Persia,
Colombia,	Greece,	Portugal,
Costa Rica,	Guatemala,	Russia,
Denmark,	Hayti,	San Domingo,
St. Thomas,	Honduras,	Siam,
Ecuador,	Italy,	Spain,
France,	Japan,	Cuba,
Tunis,	Johore,	Phillipine Islands,
Germany,	Korea,	Switzerland,
Great Britain,	Liberia,	Sweden,
British Guiana,	Mexico,	Turkey,
Canada,	Monaco,	Uruguay
		Venezuela.

Besides the above a large number of exhibits representative of foreign countries are made by companies and individuals in the several great departments and on the Midway Plaisance. China, for instance, has no official exhibit, but Chinese exhibits abound. On the Plaisance are Javanese, Egyptian, Moorish, Dutch, Japanese, Malay, Austrian, German, Irish, Dahomian, Algerian, Tunisian and Arabian pavilions, booths, villages, streets and settlements, etc.

ARGENTINE REPUBLIC.

Mr. Carlos R. Gallardo, President National Commission, Commissioner General; Lieut. Juan S. Attwell, Commissioner, Secretary National Commission; Mr. H. D. Hoskold, Commissioner; Mr. Gustavo Niederlein, Commissioner; Mr. Enrique M. Nelson, Commissioner; Mr. Carlos Olivera, Commissioner.

The collective exhibit of the government of the Argentine Republic contains an instructive assortment of the products of that country, including wines, skins, ores, woods, dyestuffs, etc. In manufactures a very good and creditable display is made, showing the progress of the country in this line, especially in later years, when, mostly owing of the high premium on gold prevailing, the establishment of new industries has been greater than ever.

The Argentine Republic being an agricultural country *par excellence*, its exhibits in the Agriculture Building do not fail to attract attention. At the Paris Exposition this section of Argentine exhibits won much admiration, but the fine collection shown here far surpasses it.

Not less interesting is the display in the Mines and Mining Building, where a collection of over five thousand different specimens of minerals are shown, from the different provinces of the Republic.

Equally attractive is the excellent collection of hard and fine woods shown in the Forestry Building.

In Viticulture and Pomology Argentine wines, alcohols, dry fruits, etc., constitute the principal products exhibited.

Boats found by the Spaniards upon their first discovery of the River Plata; railroad material and saddlery, are the main features of the Argentine exhibits in the Transportation Building.

Exhibits belonging to the Department of Ethnology, and the Woman's department, are made in those buildings, respectively.

Space has been granted to the Argentine Republic in the following buildings: Manufactures, 6,000 square feet; Agriculture, 5,310 square feet; Mines and

Mining, 2,758 square feet; Forestry, 1,510 square feet; Shoes and Leather, 1,595 square feet; Viticulture and Pomology, 1,122 square feet; Transportation, 1,206 square feet; Ethnology, 1,240 square feet; Woman's Building, 184 square feet; Liberal Arts, 1,000 square feet.

In the Fine Arts Building 600 square feet of wall space is devoted to pictures by Argentine artists.

Altogether the Argentine exhibits commend themselves to the observer, and serve to make the country better known in the United States, which has been the aim of the government and commission of the Argentine Republic.

AUSTRIA.

Hon. Anton von Palitschek-Palmforst, LL. D., Imperial Royal Commissioner General; Mr. Alexander Poppovics, Assistant Imperial Royal Commissioner; Gaston Bodart, LL. D., Assistant Imperial Royal Commissioner; Mr. Emil Bressler, Architect, Imperial Royal Commission; Mr. Hans Temple, Delegate for Fine Arts; Mr. Victor Pillwax, Treasurer; Mr. Josef Grünwald, Official Commercial Representative; Mr. Emil S. Fischer, Superintendent; Mr. Raphael Kuhe, Official Commercial Representative; Mr. Robert B. Jentzsch, Superintendent of Old Vienna.

Austria displays a comprehensive and extensive illustration of the growth and development of its industry, education and science. This exhibit of Austrian industry and art has been prepared with the greatest energy, and it will be found to well fill its place to testify to the industry and intelligence of its people, and the occasion will undoubtedly result in the further increase of those agreeable relations which exist between Austria and the United States.

In the Department of Manufactures Austria has the space just north of the German exhibit. Each of three entrances is guarded by tall pillars surmounted by Austrian eagles. The pavilions are all mounted with the Austrian crown in gold. Soaps and perfumes, paper and paper-pulp, artists' materials, portieres, screens, furniture, terra cotta, porcelain, majolica and faience articles, mosaics, bronze goods, fancy glassware, amber and meerscham work, gold and silverware, jewelry, goods of shell and horn, silks and velvets, cotton, linen and damask goods, woolens, gloves, hats, buttons, combs, leather goods, rubber goods, tin plate goods, steam cooking apparatus, steel goods, pearl goods, bathing appliances, closets, billiard cues, glass bricks for building purposes, wood carvings, watches, watch works, pipes, stoves and ranges, etc., are to be found in this department.

In the Department of Electricity are shown electrical apparatus, supplies, lamps, clocks, control apparatus, etc.

In the Department of Liberal Arts exhibits are made of medical, surgical and pharmaceutical appliances, school apparatus, statistical and geographical maps and illustrations, photographs, instruments of precision, letter boxes, musical instruments, etc.

Agricultural products, appliances for the cultivation of bees, hops, mineral waters, insecticides, malts, liqueurs, publications on seed raising, wax and waxen goods, oils, etc., are to be seen in the Department of Agriculture.

In the Department of Forestry woodstuffs, seed collections, rushes and last-goods are shown.

The invitation issued to the monarchy by the government of the United States to take part officially in the World's Columbian Exposition was most willingly accepted by Austria, while Hungary declined official participation, being now chiefly interested in her Millennial Exposition to be held in the year 1896 at Buda-Pesth. The Austrian government devoted a sum of 275,000 florins for this enterprise. The space allotted to Austria in the different buildings amounts to about 89,790 square feet, of which about 53,000 are in the Manufactures and Liberal Arts Building.

BELGIUM.

Mr. Astere Vercruysse, Senator, President of Commission; Mr. Alfred Simonis, Senator, Commissioner General; H. E. Alfred Le Ghait, E. E. and M. P. of Belgium; Honorable Lambert Tree, Honorary Counselor; Mr. Paul Hagemans, Consul General, Honorary Member;

Mr. Charles Henrotin, Consul, Honorary Member; M. Edouard Guerette, Delegate of the Commissioner General; M. Raymond Vaxelaire, Secretary of the Commission; M. Raymond Le Ghait, Secretary of the Commission; Mr. Andre Simonis, Secretary of the Commission.

As regards size, the most important feature of the Belgian exhibit is found in the Manufactures Building. The space allotted Belgium has a frontage of one hundred and forty feet on Columbian avenue, and the pavilion covers four thousand five hundred square feet of space. The façade of the pavilion is the same height as that of France, its neighbor, and the structure comprises a grand central arch and two smaller arches at each side. All carpentry work for the pavilion was done in Belgium. Among the many interesting things to be seen are a magnificent collection of bronze art works and mammoth crystal glass plates from Charleroi. Belgium also shows a fine exhibit of faience, furniture with fine carvings, etc in this department.

More than two hundred Belgian artists have contributed to the exhibits in the Art Palace. All works of art in the collection were passed upon by an expert jury at Brussels, and only the most creditable productions were sent to Chicago. Hubert Vos, the art commissioner from the Netherlands, superintended the installation of the collection, which contains besides many valuable paintings several pieces of statuary executed by Belgium's most famous sculptors. Bronze art works form a notable part of the display.

In the Department of Agriculture exhibits are made of cakes and pastry, chocolate and confectionery, raw sugar, chicory, chocolate, cocoa, tobacco and cigars, mineral waters, canned goods, liquors, gin, beer, bottle stoppers, hair, etc.

Wines, wine labels, champagne and furniture for conservatories and verandas are shown in the Department of Horticulture.

Belting shafting, water filters, forges, motors, fire engines and extinguishers, bobbins, spindles, cards for worsted working machinery, confectioners' machinery, grinding and engraving machines, mills, etc. are exhibited in the Department of Machinery.

In the Department of Transportation Belgium shows rails, brakes, wheels and axles, car-couplers, bolts and nuts, ship rigging, cordage, etc.

Plans and designs of school houses, hospitals, homes for the working class, sheet iron building, heating and ventilating apparatus, books, photographs, musical instruments, etc. are shown in the Department of Liberal Arts.

BRAZIL.

H. E. Marshal José Simeão de Oliveira, President, National Commission; Dr. Ladislau Netto, Vice-President National Commission; Mr. Adolpho Aschoff, Secretary of the National Commission; Mr. H. J. de Paiva Coutinho, Commissioner; Baron of Marajo, Commissioner; Commodore Innocencio de Lemos Bastos, Commissioner; Capt. Lieut. José Martins de Toledo, Commissioner; Dr. Julio Cesar Brandao, Commissioner; Mr. Graciano A. de Azombuja, Commissioner; Lieut.-Col. F. M. Souza Aguiar, Commissioner; Prof. Rodolpho Bernardelli, Commissioner of Fine Arts; Mr. M. Aguiar Moreira, Commissioner; Mr. Zozimo Barrozo, Commissioner; Mr. Antonio Guimaraes, Commissioner; Lieut. Joao Baptista da Motta, Commissioner; Capt. Lieut. Joao Cordeiro da Graca, Commissioner; Lieut. Antonio de Barros Barreto, Commissioner; Lieut. Alexandre Leal, Aide to President of Commission; Mr. Theobaldo de Souza Queiroz, Aide to Commission; Mr. F. F. Napoleao, Aide to Commission; Mr. H. Barjona de Miranda, Aide to Commission; Mr. Luiz Michelet, Aide to Commission.

The Brazilian Building is one of the handsomest and most attractive among the structures erected by foreign governments. It is ornamented in staff and painted white. The structure is in the form of a Greek cross, and in architecture is a pure class of French renaissance. It occupies an area of 150 feet square; is located on the peninsula just off the lagoon in the north end of the grounds and lies between the Fine Arts and Fisheries buildings. The height from the ground to the roof is 60 feet; height in the clear 150 feet. The structure is two stories, surmounted by a dome 40 feet in diameter and 40 feet above the roof. There are four campaniles which are used as points of observation. The roof is also used as a promenade, upon which beautiful specimens of the flora of the Republic of Brazil are tastefully arranged and from which a fine view of the grounds and lake is obtained. The interior is a vast arena, the walls and ceilings of

which are highly ornamented in sculpture and ornaments emblematic of historical events pertaining to Brazil. There are no exhibits in the building. The offices of the commissioners are on the first floor.

Brazil's exhibit is made in the various departmental buildings, principally in Agriculture, Forestry, Fine Arts, Machinery, Mines and Viticulture, and it consists of specimens of all the products of the soil, coffee, spices and woods from all the Brazilian States, about 150 paintings and a large number of marble statues. One statue, by Dr. Julio Brandao, is a life-size figure of Christ in white marble. A solid piece of rubber, ten feet in diameter and about twelve feet long, is shown. There is also a fine collection of coins, specimens of gold, silver and copper ores, together with various kinds of precious stones.

What the commissioners take special pride in, though, is the coffee exhibit. Coffee is served to the people free of charge. This portion of the exhibit is under the special patronage of the Centro da Lavoura e do Commercio of Rio de Janeiro, an association of coffee merchants which has presented Brazil's claims as the banner coffee-producing nation at sixty expositions. In the consignment of Brazilian exhibits received through the custom house there were 2,220 bags of coffee, enough in the display to give every visitor to the Exposition a taste of the luscious beverage as it is brewed in the new republic. Choice wines, diamonds, and other minerals, native woods and barks, paintings and statuary, various kinds of modern machinery, and other products are shown to the value of nearly a half million dollars. The Brazilian government appropriated about \$600,000 for Exposition purposes, and the display made is creditable in every respect.

BRITISH GUIANA.

Mr. J. J. Quelch, Commissioner.

Stuffed jaguars, pumas, alligators and wildcats crouching among the natural products in one corner of Agricultural Hall are part of an exhibit made by British Guiana for the purpose of informing strangers how wonderfully versatile in production is the British colony in South America. The exhibit stands in the northwest corner of the hall, and forms one of the wildest but most picturesque scenes in the Agricultural Building. Huge, square cut logs, from trees that shot upward 250 feet in the air of British Guiana, form pillars of the exhibit. Greenheart and mora—the hardwoods used in shipbuilding—the koorahura, the wallaba, used for making rum casks, and the beautiful crabwood, seen so often in furniture, are the most valuable exhibits. They are exhibited in the rough and after passing through the hands of the workmen. British Guiana is proud of her trees, and maintains that her woods are still full of them. Besides these specimens of wood there are logs of purple heart, hoolooballi, tonka bean, locust, white and yellow satinwood and towranero. Some curious specimens of buttress wood, which has no heart and looks like the shriveled hand of a giant, are exhibited as stands for flower-pots. British Guiana also shows her skill in making curacao, bitters and rum. Her preserved fruits are a specialty. In 1884, 250 ounces of gold were found in her gold mines. Last year the miners obtained 130,000 ounces, and some of this is on exhibition. The prettiest part of the exhibit lies in the cases where some beautiful feather fans are shown.

BULGARIA.

Prof. Vulko I. Shopoff, Delegate.

Bulgaria does not make an extensive exhibit. It consists principally of the ottar of roses, valued at \$100,000, and is installed in the Department of Agriculture.

CANADA.

Mr. J. S. Larke, Executive Commissioner; Mr. A. R. C. Selwyn, C. M. G., LL. D., etc., Director Geological Survey; Mr. Wilbert David Dimock, Secretary; Mr. L. Woolverton, Superintendent (Horticulture); Mr. J. A. J. Joulet, Superintendent (Agricultural Machinery); Mr. James



BUILDING OF BRAZIL.



BUILDING OF CANADA.

Clarke, Superintendent (Machinery); Mr. W. Morton, Superintendent (Liberal Arts); Mr. C. F. Cox, Superintendent (Fish and Fisheries); Mr. J. H. Tracey, Private Secretary; Mr. Chas. de Cazes, Assistant Indian Commissioner; Mr. S. P. May, D. C. L., Director for Ontario (Liberal Arts); Mr. Henry Wade, Private Secretary; Hon. A. C. P. R. Landry, Commissioner for Quebec; Rev. P. N. Bruchesi, Canon, Advisory Commissioner for Quebec; Hon. L. Beaubien, Advisory Commissioner for Quebec; Hon. J. G. Joly de Lothiniere, Advisory Commissioner for Quebec; Mr. S. C. Sterenson, Advisory Commissioner for Quebec; Mr. Wm. McIntosh, Superintendent for Quebec (Mines); Hon. W. D. Perley, Commissioner for Northwest Territories; Mr. Alex. McKay, Advisory Commissioner for Nova Scotia; Mr. R. W. Starr, Advisory Commissioner for Nova Scotia; Mr. Charles F. Law, Commissioner, Province of British Columbia; Mr. N. Awrey, M. P. P., Commissioner for Ontario; Mr. D. Ewart, Assistant Architect, Canadian Department Public Works.

The Canadian Pavilion stands upon a site of nearly 6,000 square feet of ground on the lake shore but a short distance from the United States Battleship, opposite Victoria House. The view from the "look-out" on the tower of the pavilion is perfect. It extends on one side to where the restless waters of the great lake seem to kiss the distant horizon; and on the other side takes in the magnificent pier, the architecturally beautiful Peristyle and Music Hall, with glimpses of the historic Convent of La Rabida, the great Manufactures Building, the United States Government Building, the Fisheries Building, and many of the fine and expensive edifices erected by foreign nations. The pavilion has three entrances: a main or front entrance, facing the southeast, and two end entrances on the east and west, respectively. The front entrance is through the tower, and has three doorways. Opposite this main entrance is the grand stairway, beneath and in the rear of which are numerous lavatories. In the entrance hall are located the postoffice, the telephone office and an intelligence office. In the latter are kept registers giving all possible information to visiting Canadians as to lodgings, board, the whereabouts of friends in Chicago, and other information that may be useful to Canadian visitors. Off the entrance hall is the reception room. Over five hundred Canadian newspapers are on file here. To the left of the main entrance are two handsome offices for the Dominion Commission, while the other four offices on this floor are occupied by the commissioners from the provinces of Ontario and Quebec.

On the first floor are two more offices for the Dominion Commission, four for commissioners from different provinces of Canada, a committee room and a large parlor for the use of the whole staff.

On the second floor are the tower room and the smoking room, and in the attic above is the dormitory for the guardian of the pavilion.

As the sum appropriated for the erection of the pavilion was limited, a plain style of architecture had to be adopted. Running around all sides of the building is a veranda ten feet wide, with a balcony above of the same width. The balcony is supported by twenty-eight Tuscan columns. The walls at the eaves of the roof are finished with a bold dental cornice. The pavilion is covered with a low pitched roof, partly hidden by a wall. The tower, as it issues through the roof is circular, and is divided into twelve panels; beneath these are detached pilasters. The walls are finished with a dental cornice, over which is an open balustrade. Over this is the "lookout," whence rises the flag pole, from which, from sunset to sunrise, proudly floats the Canadian flag.

The walls and ceilings are finished with native Canadian woods, highly polished and showing the natural grain. Each province of Canada has furnished the native woods required to finish its individual rooms.

Around the pavilion is a neat plot of ground covered with green turf, dotted here and there with native Canadian shrubbery and conveniently and artistically divided with serpentine roadways and walks. This building, with its furnishings and surroundings cost over \$30,000.

Various commercial, agricultural, scientific and educational articles are shown in the several departments from the provincial governments of Ontario, Quebec, Ottawa, British Columbia, Manitoba, Halifax, New Brunswick, Prince Edward Island, Northwest Territories.

CAPE COLONY.

Mr. L. Wiener, M. L. A., Commissioner; Mr. M. Berliner, Assistant Commissioner; Mr. S. Berliner, Secretary to Commission; Mr. J. W. Cundhill, Superintendent Diamond Court.

The Cape Colony of South Africa is making a fine display of its products in the Agricultural Building, where it has an allotment of 2,000 square feet, which is surrounded by handsome arches and glass screens in white stucco and gold. In this court is shown a display of ostrich feathers; merino wool; angora hair; a trophy of wines in the shape of a huge bottle; African woods and ivory; maps of the country; stuffed domestic animals, consisting of fat tail sheep; ostriches full grown and chicks six weeks old, all in full plumage; paintings of the celebrated Cape Flora; trophies of Kaffir ornaments; rare wild animal rugs; horns; basket utensils; silver leaves; cape immortelles; pyramids of ostrich eggshells; raw skins; buchu leaves; peas; beans; and cereals, including Kaffir corn, etc.

In the Mines Building the mineral wealth of the Cape Colony is exhibited. The Cape court in that building, which is between Brazil and Mexico, is encased entirely in plate glass, set in pilasters and cornices of ebonized wood highly gilt. The court is divided into compartments, one of which is a machinery hall, where the public can see behind plate glass the process of winning precious diamonds from the virgin diamondiferous soil brought from the mines at Kimberley. The process of sieving and pulsating the blue diamond ground is highly interesting. The machinery is served by three powerful Zulus who came from South Africa to do that work. After the pebbles are washed free from the soil, the same are removed from the last sieve and spread in the sorting room on a table where the person in charge picks out the diamonds that each washing produces.

Adjoining the sorting room are clearing, cutting and polishing works. Here skilled workmen, behind plate glass, show the public the manipulation of turning the rough diamond into a dazzling brilliant. Next to the work room is a private exhibit of diamonds of great value, consisting of rare and choice specimens collected and selected since 1870, when the diamond mines in Cape Colony were first discovered. At the opposite end of the pavilion, in a handsomely fitted room, the Cape shows blue and white asbestos garnets, found in the diamond soil; pyramids of lumps of diamond ground; rich copper ore; crocidolite, raw and manufactured; coals; salt, and two hundred and forty-three specimens of the mineral wealth of Africa south of the Zambesi. Between diamond machinery hall and the mineral room is a reception room, where files of South African papers and books of reference are kept for visitors.

In the Woman's Building the Cape exhibits in two large glass cabinets the handiwork of the Colonial and native women. This exhibit was carefully selected from a collection made throughout Cape Colony. Mrs. Wiener, the wife of the chief commissioner for Cape Colony, has charge of these cabinets.

In the Transportation Building the model of the graving dock of Cape Town is shown; also plans of the harbors of Table Bay, East London and Algoa Bay.

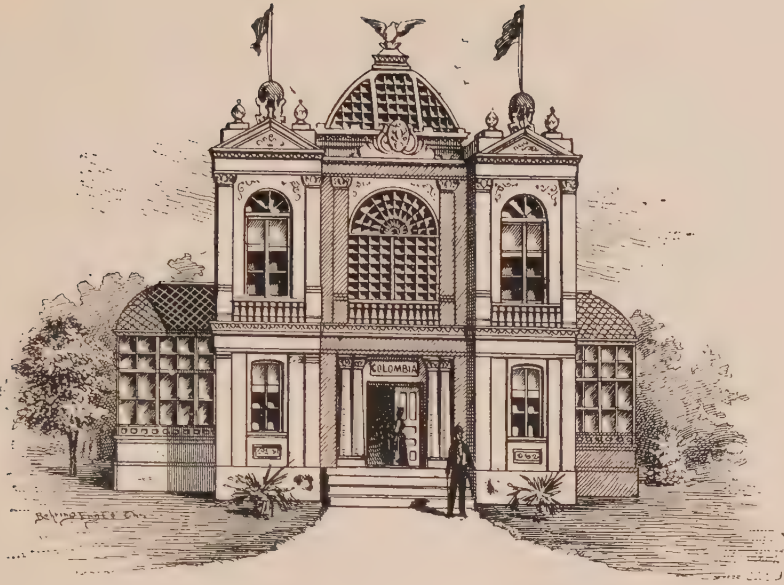
In the Horticultural Building the Colony shows the rare plant known as Wilwitschia.

Adjoining the ore yard near the Mines Building the 150 tons of virgin diamondiferous ground in blue lumps is exhibited. The care of this valuable product is in charge of three native Zulus, who live in the enclosure in a Kaffir hut erected by themselves.

CEYLON.

Hon. J. J. Grinlinton, M. L. C., Special Commissioner; Mr. W. W. Pole Fletcher, Assistant Commissioner; Capt. Arthur Hansard, Local Assistant Commissioner.

The Ceylon exhibits are numerous and consist of works of art, manufactures, the products of the Island, jewelry and curios, with a most interesting exhibit presented by the late Sultan of the Maldives to the Ceylon government. Space was allotted Ceylon as follows: Agricultural Building, —square feet; Manufactures Building, 1,350 square feet; Woman's Building, 540 square feet. In the



BUILDING OF COLOMBIA.



BUILDING OF CEYLON

Ceylon Building, designated as the "Principal Court" there is a space of 18,706 square feet for exhibits. The large court stands to the north of the German Building, fronting the lake. It is 162 feet in length. The pillars and such parts of the ends of the beams as are in view, and the four entrance doors, as also the central octagon, are beautifully carved in imitation of the carving found on the stone pillars and objects of art in the ancient city of Anurâdhapura and other places of great antiquity. This court is a fine exhibit in itself. The minor courts are also made of the woods of the island, beautifully carved, and acknowledged by all who have seen them to be works of art. The main building of the court comprises a central octagonal hall with two wings facing respectively north and south. The court partakes largely of the Dravidian style of architecture in the design of its columns and adopted by the Singhalese in their ancient temples throughout Ceylon. The details of this mixed architecture may be studied with advantage in the numerous temples and ruins scattered over Ceylon, of which views are shown in photographs exhibited in the court. The court is constructed entirely of the beautiful native woods of the island. Some twenty thousand cubic feet of timber were felled for the purpose. The whole court is raised on a projecting basement some four feet above ground level, and is reached by four stairways highly carved, two leading into the central octagon and one into each of the wings. These flights of steps are adapted designs from the well-known stairs of many fine ruined temples to be seen at Anurâdhapura and Polonnâruwa, the successive ancient capitals of Ceylon between 543 B. C. and 1235 A. D. The cobra-shrouded figures carved in bas-relief on the terminal stones, guarding either side of the approach, are termed *doratu-palayas*, or janitors. These guard-stones are always found at the foot of steps to viharés (shrines), etc., in the older ruins, to ward off evil. The small conventional lines on attached pillars at the side of the terminals are formed equally with elephants and bulls on these guard-stones at Anurâdhapura and elsewhere. The figures on the face of and supporting the steps, the front edges of which have a small conventional pattern of the water-leaf ornaments, or *padma*, carved upon them, have been supposed to represent *yakkas*, a class of evil spirits, also placed here to avert ill. At the bottom of the steps is a large carved slab, semi-circular in form, termed a *sandakadapahana*, or moonstone, carved in bas-relief, to represent a lotus flower open in the center, and concentric bands of sacred geese, foliage, and figures of lions, elephants, horses and bulls in the outer ring. The carved balustrade on either side represents a *makara*, a fabulous beast, half lion, half crocodile. Arriving at the top of the stairs, the entrance to the building is through a handsome doorway having carved jambs of similar pattern to those of the Daladà Mâligâwa (the temple in which the sacred tooth of Buddha is deposited) at Kandy, and at the Ambulugala and Dippitiya viharés in the Four Kôralés of the Kégalla District of Ceylon. The continuous scroll ornament, should be particularly noticed, also the intersecting double-foliaged scroll. The fancy design of leaf ornament spreading downward from the trunk of a woman's body, is here particularly handsome, and follows the line of the arch. The ceiling of the central hall is supported by twenty-four elaborately carved pillars, which are in two stages; the lower story supporting cross beams terminating in a carved bracket. Between the cross beams, and forming a capital to each pillar, are carved cross-bracket-capitals termed *pushpa-bandha*; they are carved to represent conventional drooping lotuses. The upper tier of these pillars, with their attached bracket-capitals, are carved in the form of a plantain flower, and the ornamentation on the face of the pillars is that of the *padama*, lotus ornament.

On either side of the central hall are colossal, figures of a sedent Buddha and Vishnu. The hands of the seated Buddha, are as usual, placed in the lap, the back of the right hand resting on the left palm, and the crossed feet showing the sacred marks on the soles.

The figure of Vishnu, usually ranked as the second of the Hindu triad, is

represented four-armed, the back pair of hands holding his discus and chank, with his vehicle, the winged *garuda* behind, and standing on a pedestal. The "lotus-god" is, as usual, painted blue.

The whole building is enclosed with an ornamental façade, there being eight windows to each annex and four of double width to the central hall. The windows have architraves carved with the water-leaf superficial ornamentation, and under each window is a panel containing conventional and other designs in bas-relief. The upper part of the window is formed of an ornamental arch, carved with the same pattern as the architrave. The carved architrave terminates with a shoulder enriched with the creeper-knot ornament.

The whole exterior of the building is framed with satinwood, ornamented with Kandyan scroll-work, and the roofs, which have large projecting eaves, are terminated at the eaves-line with valance tiles of a pattern found in frequent use in Kandyan buildings. All the roofs, which are covered with imitation pan-tiles, are framed with a break of line a little more than half way up the slope, which is especially characteristic of Kandyan architecture. The roofs over the central hall and tea room rise in three tiers, and the whole is surmounted by a *kota*, or spire, terminating in a hammered brass finial exactly similar to the one surmounting the Temple of the Sacred Tooth of Buddha at Kandy. All the ends of projecting beams, or *gones*, are highly carved, and the terminations of the rafters are cut in the manner and form peculiar to the architecture of the building.

Of the panels under the windows, that under the third window from the southeast corner is a representation of the *Ira-handa*, the sun-and-moon symbol of the Four Kóralés, with the lion holding two daggers.

The exhibits are ranged round the hall and annexes in handsome cases made of satinwood and ebony, the lower panels having the form of the *torana*, or Singhalese arch. Other exhibits are disposed round the walls and pillars of the building.

Close to the court and immediately to the northwest is a building in the form of a *dágaba*, set apart for the use of the Ceylon court staff. It is an exact representation of the Ruwanveli *dágaba* at Anurádhapura, as taken from a model carved in stone which stands within the *pradakshina*, or "procession path." Ruwanveli *dágaba* was commenced by King Dutugamunu in the year 161 B. C., and completed 137 B. C. It is constructed of solid brickwork, rising to a height of 150 feet, with a diameter at the base of 379 feet. The original outline of the *dágaba* was destroyed by the Malabars in 1214 A. D.

The minor court in the Manufactures Building is of similar design as regards pillars, paintings, etc., to the main building, as are also those in the Agricultural and Woman's buildings.

The Ladies Committee for Ceylon consists of Lady Havelock, President Lady Burnside, Lady Grenier, Lady de Soyza, Mrs. Copleston, Mrs. Allanson Bailey, Mrs. Dawson, Mrs. Grinlinton, Mrs. Mitchell. Some excellent exhibits in lace, the work of natives of the island, and some works of art, all being the work of women's hands, were collected by the committee, and form an interesting feature in Ceylon's miniature court in the Woman's Building.

Indian corn, sugar, coffee, tea, cocoa, cardamons and cinnamon, essential oils, flax, fibres, rope, farming utensils, horns and teeth, tusks, woods, etc., are exhibited in the Department of Agriculture.

In the Department of Fisheries can be seen fishing tackle, boats, fish products, mussel shells, aquatic birds, pearl fishery and appliances, pearl oysters, etc.

Machines for cleaning skins, jewelers' and silversmiths' tools, tile and brick-makers' tools, gem polishers, etc., are exhibited in the Department of Machinery.

In the Department of Transportation Exhibits can be seen bullock carts, models and appliances of war ships, rowing and fishing boats, etc.

Medicinal drugs, vanilla, native ink, furniture, mounted elephants' tusks, pottery, bronze and brass goods, ivory articles, jewelry, Kandyan cloth, artificial flowers, hides and skins, cutlery, etc., are on exhibition in the Department of Manufactures.

In the Department of Liberal Arts exhibits are made of books, photographs and musical instruments.

CHILI.

S. M. Harris, representative from the English Nitrate Company.

A complete display of nitrate from Chili is made in the Department of Mines and Mining. The action of nitrates as a fertilizer is also shown in the departments of Agriculture and Horticulture.

COLOMBIA.

Mr. T. Paredes, Special Commissioner for Antioquia; Mr. H. R. Lemly, Commissioner General; Mr. E. E. Britton, Commissioner for Antioquia; Mr. Miguel Montoya, Commissioner for Boyaca; Mr. Juan M. Davila, Commissioner for Magdalena.

The building erected for the Republic of Colombia has a frontage of 56 feet and a height of 60 feet. In the center a dome rises in conic form, crowned at the top with a large condor, which is the symbol of the country. On each side of the building there is a hothouse, which is 12x24 feet, communicating with the central part. The building has two floors. A large staircase leads up from the rear side of the center to the second floor, which forms a gallery all around the building. The style of architecture is essentially French. The two corners in front corresponding with the dome are crowned by two groups of children supporting a globe from which two flagstuffs project. The dome is in glass.

This is a handsome and graceful building on account of the quantity of such details and the correctness of its lines. In the interior there are a number of showcases and shelves, upon which the wealth of the country and its most remarkable objects are exhibited. There is also a reception room with handsome furniture. The building is finished in wood, staff, iron and zinc, and cost \$20,000.

COSTA RICA.

H. E. Sr. D. Manuel M. de Peralta, E. E. and M. P., President of Commission; Señor Dr. Don David J. Guzman, Vice President, Commissioner General; Señor D. Joaquin Barnardo Calvo, Charge d' Affairs, *ad interim*, Secretary Commissioner; Señor Don Anastasio Alfaro, Vice Secretary and Commissioner, Archaeological Department; Dr. Francisco J. Rucavado, Commissioner-Treasurer; Señor Dr. D. Felipe Gallegos, Commissioner; Señor D. Guillermo Gerard, Commissioner.

The Costa Rica Building is situated at the east end of the north pond facing west, and the location is one of the best in the confines of the grounds. Across the north pond, and within a distance to be fully appreciated, are the Illinois, Washington, Indiana, Ohio and Wisconsin Buildings. To the right are the Galleries of Fine Arts, and on the left stand Guatemala and Spain, while as a background and not far distant, Lake Michigan murmurs praise to the efforts of mortal man. The building is Doric in style; is 103 feet long by 60 feet wide, two stories and clearstory, making the full height 50 feet. On each side is a Doric portico 22 feet wide, supported by four large pilasters. Three easy steps lead up to the main floor, and opposite this front entrance broad double stairways lead to the second, or gallery floor, supported by eighteen columns rising to the full height of the clearstory. The cornices, frieze moulding, caps and bases, window casements, etc., are made of iron. The main walls are cemented, and all is painted in effective colors. The inside walls are plastered, and the walls and timber work are frescoed in a modest and becoming manner. The building is lighted by twenty large double casement windows in the first story, and ten large skylights in the roof of the clearstory, while on all sides of the latter the windows are pivoted so that when opened they will afford perfect ventilation. Ample toilet rooms have been provided on each floor. Over each main entrance to the building is placed the National shield of the Central American republic in bold relief, making a striking addition to the decorative part of the work. The building cost \$20,000.

CUBA.

Don Rosendo Fernandez, Delegate of the Chamber of Commerce of Havana.

The Cuban exhibit is made collectively in the Department of Agriculture

in a pavilion connected with that of Spain and the Philippine Islands. It consists principally of sugar, tobaccos, spices and dye stuffs.

CURACAO.

Mr. Milton O. Higgins, Commissioner.

Under this general head the islands of Curaçao, Aruba, Bonaire and little Curaçao, a part of the Dutch West Indies, make a collective exhibit in the Agricultural Building. The principal articles exhibited are salt, phosphates, Curaçao orange peel and the liquor, shells, sponges and other marine growths, models of fishing boats and native dwelling-houses, native furniture, pottery and tools, baskets and Panama straw work, leather, wax goods, aloes, snuff, licorice, grains and agricultural products, preserved fruits and jellies, gums, musical instruments, woods and gold quartz, native jewelry, gold; silver and copper, women's needle work and embroidery, and shells, sea weed and feather work. Antiquities of the ancient Caribs, including a burial urn with the skeleton found therein, are of interest.

These islands are small in area and situated in the Caribbean sea off the North coast of Venezuela. They have been owned in succession by the Spanish, English, and Dutch, who now hold them. They have a resident governor, the Hon. J. H. R. Beaujon, and are in the line of the weekly steamer from New York and Caracas, Venezuela. The climate is agreeable though dry, but owing to the industry of the Dutch planters, crops of sugar, indigo, cocoa and other tropical products are raised.

There are quite extensive beds of phosphate on the islands of Amba and Curaçao, but they are not worked as extensively now as in former years.

The local committee was organized in response to the invitation from the President of the United States to foreign countries to participate, and consists of the influential citizens of the islands; the president of the committee being the Hon. J. H. R. Beaujon, governor of the islands; Edward J. VanLier is secretary of the committee.

Upon request of the Board of Lady Managers at Chicago, a committee was organized to make an exhibit of women's work, consisting of the following ladies: Mesdames Van Romondt Knoch, wife of the commandant of the forts, and Gaerste-Green, and Misses M. E. Bruinier, J. Boomgaart, Rea. Cohen, Henriquer, E. Ley Ca and Mina Schotbergh.

An interesting exhibit is a model of the Island of St. Thomas, Danish West Indies. It is about eight feet by four, built to a scale of six inches to the mile, painted in natural colors, showing the roads, country houses, ships and steamers in the harbor and the pretty town of Charlotte Amalia, with its two old legendary towers of Blackbeard and Bluebeard. It is set into a table enameled in black, edged with gold, with terra cotta paintings of various spots of interest on the island, the whole being covered with plate glass.

DENMARK.

Mr. C. Michelsen, President of Commission; Mr. Emil Meyer, Commissioner General; Mr. Oscar Matthiesen, Commissioner of Fine Arts; Mr. Otto A. Dreier, Secretary of Commission; Mr. Carl Cortsen, Chief of Installation; Mr. K. Arne Peterson, Architect; Mr. Christian Nielsen, Decorator; Mr. V. Christesen, Delegate; Mr. Bernhard Hertz, Delegate; Mr. H. A. Kahler, Delegate; Mr. Carl Rohl-Smith, Delegate for Fine Arts; Dr. Charles E. Taylor, F. R. G. S., Special Delegate from Danish West Indies.

The Danish exhibits are principally in the Manufactures and Agricultural buildings and in the Art Palace and the Woman's Building. The main exhibit in the Manufactures Building is the finest that has ever been made by Denmark. The pavilion which fronts on the main aisle of the building, represents on its façade the coat of arms of the city of Copenhagen. On the sides of the pavilion paintings by Danish artists of local and colonial scenery are hung, and in the interior the decorations are magnificent and unique. Among the interesting points of the interior is an exact reproduction of a room in the house of Hans Andersen.

In the Woman's Building are shown a number of exhibits from the Danish women. The Queen sent a painting, a floral piece of roses and lilies; the Crown Princess, old embroideries and handkerchiefs; the Princess Marie of Denmark, three large aquarelles; the Countess Rohan-Ledtzen, national costumes of Aneager and Filer; the Baroness Reedl-Thosa, old linen embroidery and antique carved wooden appliances for laundry work; the Countess Moltke Bregenteid, linen embroideries by Hedebo peasants; C. Stanshohen, yellow silk embroideries on blue velvet. The list comprises many similar articles, loaned by distinguished people.

Iceland sagas, bearing on the early discoveries of the Norsemen and the stories of their trips to Vinland and North America, have been lent by the Danish government to the United States for exhibition at the Exposition. These sagas are entitled *Codex Fluteyensis*. It required a great deal of red tape to secure these valuable manuscripts. Before permitting them to leave Copenhagen the Danish government stipulated that in case of the total loss \$20,000 must be paid for them and all expenses incident to their exhibition. They are to be returned by a United States man-of-war.

In the Department of Agriculture are dairy appliances, butter in tins, condensed milk, machine and hand churns, beer, liquors, axle-grease, etc.

Denmark makes a very creditable display in the Department of Machinery. Here are shown coffee-mills, machines for shoe re-soleing, lithographing, apparatus for preventing machinery running hot, etc.

In the Department of Liberal Arts are exhibited books, illustrations, maps, designs for home and school work, photographs, pianos, etc.

ECUADOR.

Colonel M. N. Arizaga, Charge d'Affairs and Delegate General; Señor Don G. Perez, Secretary; Señor Don T. G. Sanchez, Commissioner; Mr. L. J. Millet, Commissioner; Mr. Oscar Jander, Assistant Commissioner.

The Republic of Ecuador has a collective exhibit in the Agricultural Building and shows its agricultural products such as cocoa, coffee, tobacco, cotton, sugar cane, anis seed, wheat, corn, rice, etc., and from its forests such as rubber, red-bark "quina," vegetable ivory, and over five hundred kinds of woods valuable for furniture and constructive purposes; the Toguilla straw with which the inimitable straw hats, erroneously known as Panama hats, are made; cabuya or sisal hemp and other fibrous plants, gums, resinous barks, etc., of immense value to science and industry. Samples of the many minerals that enrich the Ecuadorian soil, side by side being the auriferous quartz of Zaruma, the silver of Pilzrun, and samples from the gold washing sands of Sigisig and Esmeraldas (Plays de oro, Angostura, etc.), as also samples of crude petroleum from the beds at Santa Elena; of sulphur from Alansie; of marble from Farqui, etc., are exhibited.

Native industry is shown by the straw hats of Manabi, refined sugars from Milagro and Galapagos; ropes, cords, etc., made in Ambato from the sisal plant; different kinds of spirits, beer and liquors from Quito, Guayaquil, and Cuenca; samples of weaving in silk; wool, cotton, cigars, cigarettes, machinery, tapestry, saddlery, tanning, boot-making, tailoring, iron founding, etc.

The arts occupy a preferable position in the pavilion and visitors will meet with the opportunity of seeing the paintings of Salas, Pinto, Manosalras, Cadena, Salguero and other famed Quito artists. In sculpture there are on view works by the famous Cuencano sculptors, Don Miguel Veliz and Benelcazor, as well as those of many others in painting, sculpture, music, gold and silverware, etc.

Samples of the ladies' hand work consist of embroideries, open-work in silk and linen, lace and crochet, paintings in oil and watercolors, drawing, hair work, and numerous fancy articles in vegetable ivory, metals, wax, feathers, and fibres.

There is another section devoted to curiosities in which are placed pieces of rare vestments, some used by the tame Indians of Ecuador, and others again of the untamed. Human heads reduced in size by an undiscoverable secret, arms and trophies of war, fossils, numistical collections, antiquities, etc. The dif-

ferent articles pertaining to the two tribes Quitus and C  naris, and dating anterior to the Spanish Conquest, are placed in a separate casing thus forming an interesting attraction to scientific visitors. This arch  ologic and ethnologic collection was very highly praised at the Madrid Exposition, and is composed in the greater part of ancient pottery of the time of Seyris and the Incas of idols, figures, musical instruments made of baked clay, as also a few of stone and bronze, as human figures, domestic utensils, workmen's tools and instruments of war.

Owing to the inconvenience of transportation such a great distance it has not been possible to form a complete exhibit of the flora and fauna of Ecuador, but among the few specimens forwarded there are, without doubt, some worthy of the study of those interested in these branches, especially so in the contribution by Sen. Don Augustin Cousin, member of the Institute of Science, Paris, who forwarded a considerable quantity of "moluscas."

Finally, men of letters will find in the pavilion works of the most distinguished Ecuadorian authors, writers, etc., such as the epic poems by Jose Joaquin Olmedo; the works in prose by Juan Montalro; History of Ecuador by Don Pedro Fermin Cerrallos; Studies Arch  ologic by Don Federico Gongalez Suarez, the eminent divine, and the dictionary in Quechua and Spanish by the present President of Ecuador, Dr. Luis Cordero, who is as eminent in literature as in politics.

FRANCE.

M. Camille Krantz, Commissioner General; M. Edmond Bruwaert, Consul General, Deputy Commissioner General; M. Monthiers, Secretary General; M. Verstraete, Vice-Consul, Secretary; M. Heilmann, Treasurer; M. Mascart, Engineer, Chief of Installations; M. Max Duchanov, Attach  ; Baron Ren   de Batz, Attach  ; M. Lefevre Meaulle, Attach  ; M. Masure, Attach  ; M. de la Touanne, Electrical Engineer; M. Vassilli  re, Special Commissioner for Agriculture; M. Roger-Martin, Assistant Special Commissioner for Agriculture; M. Mesnier, Assistant Special Commissioner for Agriculture; M. Monteils, Special Commissioner of Algeria; M. Sch  rer, Secretary for Colonies; M. Roger Ballu, Principal Commissioner for Fine Arts; M. Giudicelli, Assistant Commissioner for Fine Arts; M. Motte, Architect, Decorator; M. Dubuisson, Architect; M. Sandier, Architect; M. Yvon, Architect; M. T. de Balincourt, Lieut. French Navy, Commanding Sailors' Detachment; M. Maurice de Vilmorin, Horticulture; M. Georges Lamaille, Bronzes, Crystals; M. D. Astric, Secretary for Fine Arts; M. H. L. Gu  rin, Secretary of the Fine Arts Committee; M. J. Perrin, Special Delegate of Manufacture Nationale de Sevres; M. Pierre Masson, Attache to Commissioner General; M. A. Paradis, Attache to Fine Arts Commission; M. T. Bilbaut, Special Commissioner for Colonies; Marquis de Chasseloup Laubat, Special Commissioner for the World's Congress Auxiliary.

In March, 1892, a special French commission was appointed under the direction of the Secretary of State for Commerce-Industry to examine the propositions made for a credit of 2,000,000 francs for sending exhibits of French firms to the Exposition, but the sum was deemed inadequate and 4,000,000 francs was granted. The credit once voted the greatest activity prevailed in France. M. Camille Krantz, the member in Parliament for the Department of Vosges, was appointed commissioner-general. With him were also appointed M. Edmond Bruwaert, French consul-general in Chicago, as deputy commissioner, and M. Monthier as general secretary. To induce the French people to send exhibits thirty-nine official committees were organized by the government, each one of them having its own office and its own task; namely, to obtain adhesions in a given line of industry and group these adhesions together. Meanwhile space had been asked for and obtained in every one of the departmental buildings at Jackson Park. These spaces were divided and part of each allotted to every committee, the committee having the task of decorating the space or section thus allotted and of dividing it among the different exhibitors according to their importance. So great was the number of French firms anxious to exhibit that supplementary spaces had to be asked for; but this request could be only partially granted.

The French Pavilion lies near the shore of Lake Michigan, and directly east of an annex of the Fine Arts Building. The outside wall is decorated with paint-



BUILDING OF COSTA RICA.



BUILDING OF FRANCE.

march of the nation. One of the most interesting exhibits is the Salle de Gobelins. This is called the throne room, only there is no throne in it. The friezes on the walls represent the great centers of trade with figures of Palissy, Limoges and Beveau. At the back is a huge tapestry representing the God-child of fairies, one of the finest and best-known Gobelins in France. The furniture room is magnificent, and in it is displayed the most beautiful and costly furniture. There is one divan of Louis XIV style worth \$5,000 and a set of drawing-room furniture of the same period worth five times as much. All this furniture is covered with the finest tapestry and is most delicate in design and coloring. A bride's trousseau is exhibited which is, perhaps, the most costly ever made. Some of the items and cost will illustrate: The silk underskirt is made of embroidered white silk trimmed with lace, and is valued at \$2,300; several pieces of underwear worth \$200; a single bed sheet, embroidered in silk, worth \$1,000; a pillowcase worth \$160, and a whole case of robes de nuit at \$500 a piece. The entire outfit is worth \$25,000. There is a cradle made of lace worth \$3,000 and a fine display of all the wonderful art. Several prominent perfumers in France have combined in one room, which has been painted a delicate Nile green. In the center is a fountain of perfume. It will be changed each day, and it will not only perfume the entire space but the public is at liberty to perfume their handkerchiefs in the spray free of all charge. A display represents an afternoon tea at which all of the latest gowns are fitted on wax figures. The silversmiths and jewelers have a most elaborate display. In the gallery are shown the famous silks from Lyons and St. Etienne, with a pair of portieres made expressly for this Exposition, on which are embroidered the arms of this country and France.

The French display in the Woman's Building shows the work of women, but the most striking feature is a large group of figures representing the different costumes worn by the people of France from the earliest days.

In the Department of Agriculture the French republic has a fine display of all its products, including those of its colonies. The colonies have erected a pavilion which is for their exclusive use, being intended to show the entire products of their countries. The display is made in the east entrance of the Agricultural Building. Seeds, standard samples of wheat, choice flowers, refined sugars, appear side by side, with canned goods, green peas, mushrooms, oils, plums, nuts, etc. Agricultural implements and illustrations of agricultural teaching are found in two other different sections. There are over seventy-five millions of people living in the many colonies France has in various countries such as Algeria, Tunis, Senegal, Madagascar and Indo-China, all under French rule. The exhibits from these colonies are partly in the Agricultural Building, partly outside. The Algerian products are located in an Arab pavilion, reproducing one of the most charming buildings of Algiers. Outside the Agricultural Building, on the shore of the south lagoon, is the Tunisian pavilion, surrounded by souks and the Annamit pavilion where are gathered most of the exhibits sent by French colonies, among others New Caledonia's celebrated nickel ores, the king of Annam treasury, photographic views of St. Peter, Miguelon Islands. France is, above all, an agricultural country. Out of her thirty-eight millions of inhabitants on the continent alone fully more than twenty millions are raising food products, cereals, wheat, corn, sugar beets, flax, hemp, vegetables, olive trees, etc.

In Machinery Hall are exhibited steel and iron products from various sections of the republic, showing guns, shells, plates for ironclads, soap-making machinery, weaving looms, etc.

In the Electricity Building the French section lies in the northwest corner. It is divided in two parts, one containing national and the other private exhibits. In France the government has a monopoly concerning the use of telegraph and telephones and no private corporation can compete with it in this line. The national exhibit shows how the telegraphic service is organized in France and operators are seen at work. Self-acting apparatus automatically registering any change in the temperature, direction of the wind or atmospheric moisture, are also shown.

Coal, cement, asphalt, slates and metallic products are shown in the Department of Mines.

Railroad engines, steel tires, railroad supplies, carriages, landaus, dog carts, saddles, harness, models of ocean steamers, sedan chairs, etc., are shown in the Department of Transportation Exhibits.

Wine, the national beverage of France, is shown in the Department of Horticulture, where samples of many famous brands may be seen. Then there are cordials, Chartreuse, Benedictine and other liqueurs, mineral waters, etc. A splendid floral exhibit is also made.

Exhibits are also made in the Shoe and Leather Building and the Dairy and Forestry Departments.

In the Department of Liberal Arts the leading publishers of France are represented. The collection is particularly rich in ouvrages de luxe. Among these are, from the Pions, "Les Maitres Florentins du XV Siecle," containing thirty drawings by Count Delaborde and W. Haussoullier, after original paintings and sculptures in Thiers' collection, a folio volume costing 300 francs; from Edouard Rouveyre, the first of two volumes devoted to the manuscripts of Leonardo da Vinci, with fac-similes or reproductions of the originals; a dozen notable works from the press of Thèzard, dealing with the subject of art as applied to decoration and house furnishing; another dozen of magnificent volumes bearing the imprint of the Hachettes and others. Besides, musical instruments, etc., are to be seen in various groups.

Altogether, France did her best to cheerfully answer the invitation extended to her to participate in the Columbian celebration, and one can be easily convinced of her good will by going over the different spaces she has been allotted in every department, and which have been occupied, not without a large laying out of money by the government as well as by the private exhibitors.

Not less than \$10,000,000 worth of goods are displayed, and the total amount of space occupied is about 450,000 square feet.

GERMANY.

Honorable Adolf Wermuth, Imperial Commissioner; Mr. Franz Berg, Assistant Imperial Commissioner; Mr. Karl Hoffacker, Architect, Imperial Commission; Mr. Johannes Radke, Architect, Imperial Commission; Mr. Aug. Fiedler, Architect, Imperial Commission; Mr. Hugo Schnars-Alquist, Delegate for Fine Arts; Mr. Carl Haller, Engineer, Imperial Commission; Mr. Gustav Spiess, Member for Commercial Affairs, Imperial Commission; Mr. George Franke, Secretary, Imperial Commission; Mr. Fritz Kuehnemann, Mechanical Engineer; Dr. Lobach, Electrical Engineer; Mr. Conrad Engel, Bergassessor.

COUNCIL OF DEPUTIES.

Mr. Julius Beissbarth, Nuremberg-Furth Industry; Mr. Doehn, Imperial Postal and Telegraph Exhibit; Mr. Ehrhardt, Civil Engineer, Nuremberg-Furth Industry; Director Robert Erhardt, Metallurgical Exhibit; Professor Finkler, Imperial Educational Exhibit; Mr. Richard Fischer, Chemical Collective Exhibit; Mr. Paul Gesell, Royal Saxon Porcelain Exhibit; Mr. Fritz Gräber, Textile Collective Exhibit; Mr. Gisbert Gillhausen, Gun Exhibit; Mr. Hartmann, Royal Architect, Engineering Exhibit; Mr. Hauelsen, Chemical Collective Exhibit; Mr. Richard Horstmann, Royal Prussian Porcelain and Jewelry Collective Exhibits; Professor Hoffmann, Textile Collective Exhibit; Mr. Franz Jaffé, Royal Architect, Imperial Educational Exhibit; Dr. Ulrich Jahn, Ethnological Exhibit, "German Village;" Dr. Kallen, Imperial Educational Exhibit; Conservator Kopp, Bavarian Industrial Art Exhibit; Mr. Lauter, Civil Engineer, Gun Exhibit; Mr. Meyer, Civil Engineer, Metallurgical Exhibit; President O. W. Meyenburg, Electrical Exhibit; Mr. Petri, Royal Architect, Royal Prussian Railway Exhibit; Mr. J. Scheurer, Civil Engineer, General Railroad Exhibit; Professor Spatz, Metallurgical Exhibit; Dr. Albert C. Weil, Bathing and Mineral Exhibit; Professor Dr. Wätzoldt, Imperial Educational Exhibit; Dr. Lichtenfelt, Imperial Educational Exhibit; Prof. Goetz, Art Industrial School, Baden; Prof. Kips, Royal Prussian Porcelain Exhibit; Mr. Friedrich Dernburg, Representative German Press; Director Dernburg, Ethnological Exhibit, "German Village;" Mr. Seitz, Industrial Art Exhibit; Prof. Riedler, Engineering Exhibit; Mr. Hundeshagen, Civil Engineer, Machinery Exhibit; Mr. Guenther, Civil Engineer, Machinery Exhibit; Mr. Eduard Schrickell, Iron Industry; Director Josef Gorz, Agricultural Exhibit; Professor Hans Virchow, Educational Exhibit; Dr. Koblanck, Educational Exhibit; Mr. Dahlen, Wine Exhibit; Mr. Hartmann, Electrical Exhibit; Mr. von Siemens, Electrical Exhibit.

The construction of the German Building has been with a view of making it not only an imposing structure, worthy of the great nation it represents, but at

the same time an essentially German house in its characteristics. Precedent and the dignity of such a power demanded that its representatives in a foreign country be housed in a manner to do credit to the Fatherland. Realizing these facts in Berlin much care was taken in constructing the "Deutsche Haus" in such a way as to do credit to Teutonia. It is situated in the northeastern portion of the grounds, facing the lake. It lies near the Swedish building, and immediately east of the Illinois State Building. A fine view is afforded of the Hall of Fine Arts to the northwest, and of the Fisheries, Manufactures and United States Government Buildings to the southwest. It is composed of Gothic, German renaissance and the modern styles of German architecture. The main building is 130x112 feet in breadth and depth, and is two stories high. To the longitudinal section of the main entrance a chapel-shaped structure has been attached, thus making the section 169 feet. Excellent architectural effect is produced by projections, which seem to be the natural outgrowth of the smooth walls, which, together with the high gable roof, which ascends to a quadrangular turret, and bell tower, 105 feet high, make a striking picture of architectural beauty. The dome of the tower is in the Byzantine style. The outer walls are of a massive appearance and are decorated with scenes in the style used in Muenchen and Nuremberg, representing masterworks of the German art of bronze founding. The entire main front is of a light color, broken by reliefs similar to those on the Tucherhaus on Friedrichstrasse in Berlin. The front shows the old German Imperial eagle from the time of the Hohenstaufen bearing a shield with the eagle of Prussia. Under the symbols of the new empire, the crown and scepter, are grouped the coat of arms of the various States of the German Union. The upper structure is varicolored to the steep roof, which is covered with glazed tiles. Above the main entrance the visitor is welcomed by the following sentences: "Bountiful and Powerful;" "Rich in Corn and Wine;" "Full of Strength and Energy;" "Mother of the Sweetest Tunes and Home of the Greatest Thoughts;" "I Shall Sing Thy Praise, O Fatherland Mine." To the left of an elaborately ornamented hall are the reception room and offices of the Imperial Commissioners. This high double hall is 42 feet high, the two divisions of which are separated by a colonnade 21 feet wide. The hall occupies, with the exception of the apartments referred to, the whole body of the main building and forms a longitudinal quadrangle 108 feet in breadth, covering a space of 7,569 square feet. This hall is occupied by the displays of the German book manufacturers, and the literature of the country is fully represented. In the chapel-shaped annex, ecclesiastical art is displayed, showing altars, organs, etc. From the bell-tower the chimes exhibited by the society of Bochum peal forth their silvery strains. These chimes will be donated to Grace Church in Berlin after the close of the Exposition.

This building and its contents form an attraction separate from the German village, which occupies 17,500 square feet on the north or Fifty-ninth street side of the Midway Plaisance where it is intersected by Kimbark ave. This village came from Germany in a shipment of over 6,000 pieces, representing farm buildings, markets, shops, meeting hall and church, all in the style of the twelfth century. It contains many interesting antiquities from the German museum at Mayence.

Beside being the official abode of the Imperial Commission, accommodations have been provided in the German Imperial Building for delegates from the German empire and as a resting place for the weary German sightseer, where an opportunity is afforded him to meet his countrymen.

The plans of the German Building were designed by the Imperial architect, but it owes its material existence in part to a number of patriotic manufacturers, who, inspired by the glory of their country, contributed freely in materials and money.

Germany has an exhibit worth 40,000,000 marks, or over \$10,000,000. Space was taken in nine different buildings, and outside of these are the Krupp display.

Occupying a prominent place in the Transportation Exhibits Building is a

museum of the progression in railway tracks, the only one in the world. An attempt is made in this display to enhance the value of the modern methods by comparison. Each railway engine and car stands beside a model of the first of its kind ever used in the country. Germany claims much for its railway postal facilities, and displays one of the new postal cars which were made on a model of the ones used by the Chicago, Milwaukee & St. Paul road, and beside it stands a portion of the first postal car ever used in the kingdom of Prussia—a cramped, rickety, antiquated vehicle, making the contrast startling. This display occupies one of the largest spaces in the building.

Close beside the American Bell telephone display the Germans have a large space in the Electrical Building. Many of the more modern appliances of electricity in Germany are American. It embraces the system of army signals recently introduced and the German system of electric lighting and telegraphy.

In Machinery Hall there is a most extensive showing. A firm of famous iron kings of Germany has two gigantic columns—one representing iron-pipe, the other wire and wrought iron. These are connected by a massive iron door, showing ornamental work in cast iron and they are flanked on either side by two obelisks, one of steel and one of iron, fifty feet high. This firm also shows some of the machinery it uses in working in iron.

Beer has the place of honor in the Agricultural Building. Extensive displays from the famous breweries of Lowent, Kaulmach, the Hoffs, Munich, Bergerbraen and Frankelbraen are made in bottles and casks and a miniature brewery is run showing how they make beer in the Fatherland. Waters from Ems, Baden-Baden and Weisbaden attract those to whom beer has no charms, and extensive exhibits are made in the forestry and dairy displays. Outside of the building they have a space to show model farming, where considerable attention is given to the various systems of fertilizing in use.

Of all the foreign exhibits in the Department of Manufactures Germany's is perhaps the largest. Their space is in the northwest center of the hall facing the big clock tower. The decorative structure which marks the corner of the German exhibit is done in the style of German renaissance. It forms the quarter of a circle with a square tower at either end, supported by four Ionic pillars and having a decorated plinth upholding golden eagles as the crowning features. An archway extends through these towers and on the two blank walls are carved and gilded medallions. At the base of each of these towers is a cleverly-modeled fountain representing a dolphin spouting water into a seashell basin upheld by a devilfish. Between the two fountains is another basin, which receives the overflow from these basins and the water from a third fountain, which is a part of this feature of the exhibit. Connecting the two towers is a curved archway with artistic medallions on either side, surmounted by a group fountain, of which Neptune, with his trident, is the central figure. On either side of this figure is a water horse with ears erect spouting water from pipes held in the mouth and each controlled by mermaids. Two wrought iron gates on either side of the towers lead into a richly-furnished room, which surrounds the tower and in which is shown a large collection of honorary presentations to Emperor William, Prince Bismarck, Count von Moltke, and the sovereigns of the German States. Just to the north of the corner piece and separating it from the gold and silver display, behind the great wrought iron fence, is a room beautifully decorated, in which is shown the exhibit of Bavarian industrial art. At the south entrance is the palace of King Ludwig. This is the most elaborate interior on the floor. Each room opens to the aisle, and all differ in design. One is gold, inlaid marble, and the center one a drawing-room with frescoes worth a small fortune. The inlaid marble work is remarkable, and represents fruits and flowers cut out of colored marble and put into the white. North of this are four rustic work pagodas which are used by the famous textile firms of Germany. One is occupied by an Axminster carpet firm of Belsnitz. In front of it hangs a piece of carpet which took six months to make, and which has one million tufts in it. They have fitted up two

rooms, one a lady's boudoir and the other a gentleman's lounging-room, both hung with rugs and draperies and furnished with beautiful furniture. Next to them is the exhibit of the Royal Saxon China manufactory at Meissen. This exhibit alone weighs sixty tons, and is worth \$500,000. It includes some of the most delicate work of the famous pottery. Bohemia is noted for its glass to a greater extent than Newcastle is for coal, and the exhibit is bewildering. There is glassware of all descriptions, and some of it almost priceless. The exhibit is all in show cases, and is guarded night and day by two stalwart Bohemians. This is said to be the finest collection ever shipped to this country. The vases are all hand painted and burned, and have that deep-blue color which distinguishes the Saxon ware from all others. In this collection are also a large number of plates decorated after Chinese designs in blue and gold. One delicate little soup plate was invoiced at \$60, and a platter, whose chief reason for existence is to decorate a mantle shelf and look pretty, is valued at \$120. Under the gallery in the German space little rooms have been made between girders, and each is occupied by some firm with a particular line of goods. One of these is taken by the clock factory of the Black Forest, where no less than forty different varieties of cuckoo clocks are shown. With the exception of the weight and chains the clocks are made of wood, and it is the intention of the exhibitor to keep the forty cuckoos at work all of the time.

In this building is also an extensive display of jewelry and silverware, and prominent among the latter is some of the plate which has been presented by the different German states to Emperors William I and II, Von Moltke and Bismarck. Much of this was given as a souvenir of some particular battle and forms a sort of historical object lesson. Especial attention was paid to a collection of vases and jardinières, ancient and modern, and a large space was allotted to the royal Prussian, Bavarian and Saxon porcelain makers. In this building, also, may be seen an extensive school exhibit arranged by the royal Prussian minister of education, which includes a model school building.

In addition to 2,660 square feet assigned to German plants inside the Horticultural Building 32,234 square feet have been given to that country outside for plants and flowers, as follows: 2,000 feet for standard roses, 6,000 for dwarf, 1,000 for carnations, 290 for begonias, 100 for cannas, 20,000 for dahlias, 630 for chrysanthemums, 610 for asters, 20 for zinnias, 200 for summer flowers, 250 for clematis, 1,000 for herbaceous plants, 90 for tritonia uvaria, 90 for lily of the valley, and 50 for rochea falcata. In all the German Empire has been given space for 35,006 square feet for its floricultural exhibit.

Germany has sent a commission consisting of university professors to Chicago to represent the educational exhibit made by the Fatherland. The gentlemen forming the commission are Prof. Stephen Waetzold, commissioner general; Z Zaffe, government architect; Prof. Dr. Dittmar Finkler; Dr. H. Lichtenfeld and Dr. Kallen, district school inspectors.

A novel feature is introduced in Horticultural Hall. This a long model of the Rhine district, showing the winding of the river, the steep bluffs with the famous castles and vineyards. Models of the Rhine steamboats pass up and down the river. A reproduction of the celebrated monument erected in commemoration of the Franco-German War—Germania—is also shown.

Several thousand feet is utilized for the fish exhibit in the Fisheries Building.

The women of Germany entered into the spirit of the Exposition with a zeal that is rare, and so persistent were their demands for space that it was a difficult task to find it for them. The empress herself and nearly all of the feminine members of the royal family prepared articles shown here, and throughout the length and breadth of the united kingdom fair fingers industriously worked on patterns rich and rare. The list of the articles is long and includes pictures in oil, water and silk; all branches of the kindergarten, from the very inception; tapestries, old and new; its watch and clock works; fabrics of all kinds and descriptions, and its various systems of dispensing charity.



BUILDING OF GERMANY.

Germany sent some of her very richest treasures to the Art Building. In this department is shown progression in art by comparison of the modern with the earliest German efforts.

The list of Germany's exhibitors contains 5,077 names. Represented in it are 230 cities and towns of the empire, and of these 40 cities send more than ten exhibits each. Berlin leads with 283 exhibitors; Munich follows with 187; Leipsic with 149; Frankfort, 55; Hamburg, 57, and Chemnitz, 41.

Emperor William showed his appreciation of the Exposition, and especially his respect for Director-General Davis, by authorizing Herr Wermuth, his Imperial Commissioner, to present to Col. Davis an elegantly bound work bearing on the discovery of America. The German title is "Die Entdeckung Amerikas." This work was issued by the Geographical Society of Berlin in commemoration of the 400th anniversary of the discovery of America. Toward the publication of the work Emperor William himself contributed a large amount of money.

GREAT BRITAIN.

Royal Commission.—The Council of the Society for the Encouragement of Arts, Manufactures and Commerce.

This Society (the Council of which has been appointed by Her Majesty a Royal Commission for the World's Columbian Exposition) was founded in 1754, and incorporated by Royal Charter in 1847, for "The Encouragement of the Arts, Manufactures and Commerce of the country, by bestowing rewards for such productions, inventions or improvements as tend to the employment of the poor, to the increase of trade, and to the riches and honor of the kingdom; and for meritorious works in the various departments of the Fine Arts; for Discoveries, Inventions, and Improvements in Agriculture, Chemistry, Mechanics, Manufactures, and other useful Arts; for the application of such natural and artificial products, whether of Home, Colonial, or Foreign growth and manufacture, as may appear likely to afford fresh objects of industry, and to increase the trade of the realm by extending the sphere of British commerce; and generally to assist in the advancement, development and practical application of every department of science in connection with the Arts, Manufactures and Commerce of this country." The history of the Society has been intimately associated with the promotion of Fine Art and Industrial Exhibitions. The first Exhibition of the works of native artists took place in the rooms of the Society in 1760, and out of the movement which originated this and some subsequent exhibitions grew the Royal Academy. In the following year, 1761, the machines which had obtained Premiums from the Society were exhibited to the public, and this exhibition may be considered as the commencement of the long series of Industrial Exhibitions. To the action of the Society of Arts is due the first International Exhibition, that of 1851, which was successfully carried through under the patronage of H. R. H., the late Prince Consort, who was President of the Society. The Great Exhibition of 1862, was also originated by the Society. The first Exhibition of Photography, out of which the Photographic Society has grown, took place under the auspices of the Society of Arts, 1852. The Society has also forwarded the Cause of Education by a system of Examinations, and the great questions of Sanitation and Water Supply have been discussed at Congresses convened by the Society.

H. R. H. The Prince of Wales, K. G., President of the Society of Arts.

Sir Richard Webster, Q. C., M. P., Vice-President and Chairman of the Council of the Society.

Sir Frederick Bramwell, Bart., D. C. L., F. R. S., Vice-President and Deputy-Chairman of the Council.

H. R. H. The Duke of Edinburgh, K. G., Vice-Pres.; Sir Frederick Abel, K. C. B., D. C. L., D. Sc., F. R. S., Vice-Pres.; The Duke of Abercorn, K. G., Vice-Pres.; William Anderson, F. R. S., D. C. L., Vice-Pres.; Sir George Birdwood, K. C. I. E., C. S. I., LL. D., M. D., Vice-Pres.; Sir Edward Birkbeck, Bart., Vice-Pres.; Sir Edward Braddon, K. C. M. G.; Maj.-Gen. Sir Owen Tudor Burne, K. C. S. I., C. I. E., Vice-Pres.; Alfred Carpmael; Michael Carteighe, Vice-Pres.; R. Brudenell Carter, F. R. C. S., Vice-Pres.; Sir George Hayter Chubb; Lord Alfred S. Churchill, Vice-Pres.; B. Francis Cobb, Treas.; Sir Philip Cunliffe-Owen, K. C. B., K. C. M. G., C. I. E., Vice-Pres.; Professor James Dewar, M. A., F. R. S., Vice-Pres.; Major-Gen. J. F. D. Donnelly, C. B., Vice-Pres.; Sir Henry Doulton, Vice-Pres.; James Dredge; Francis Elgar, LL. D.; Professor Clement Le Neve Foster, D. Sc., F. R. S.; Sir Douglas Galton, K. C. B., D. C. L., F. R. S., Vice-Pres.; Walter H. Harris; Sir Edward James Harland, Bart., M. P., Vice-Pres.; Alexander B. W. Kennedy, F. R. S.; Charles Malcom Kennedy, C. B., Vice-Pres.; Sir Frederick Leighton, Bart., P. R. A., Vice-Pres.; Sir Villiers Lister, K. C. M. G., Vice-Pres.; John Biddulph Martin, Vice-Pres.; John Fletcher Moulton, Q. C., F. R. S.; John O'Connor, Vice-Pres.; General the Right Hon. Sir Henry F. Ponsonby, G. C. B., Vice-Pres.; Wyndham S. Portal, Vice-Pres.; William Henry Preece, F. R. S.; Sir Robert Rawlinson, K. C. B., Vice-Pres.; Professor William Chandler Roberts-Austen, C. B., F. R. S.; Sir Owen Roberts, M. A., D. C. L., F. S. A., Treas.; Sir Albert Kaye, Rolliitt, M. P., LL. D., Vice-Pres.; Sir Saul Samuel, K. C. M. G., C. B.; Rt. Hon. Lord Thurlow, F. R. S., Vice-Pres.

Sir Edward Birkbeck, Bart., Member of Royal Commission; Mr. James Dredge, Member

of Royal Commission; Mr. Walter H. Harris, Member of Royal Commission; Sir Henry Truman Wood, Secretary Royal Commission; Mr. E. H. Lloyd, Assistant Secretary and General Superintendent Royal Commission; Mr. Ralph A. Harbord, Private Secretary; Mr. J. W. Beck, Superintendent (Fine Arts); Mr. E. H. Fishbourne, M. A., LL. B., Superintendent (Manufactures); Mr. H. D. Wilkinson, M. I. E. E., Superintendent (Machinery, etc.); Mr. Thomas Baker, Superintendent (Transportation); Mr. H. W. Pearson, Superintendent (Agriculture).

Honorary Solicitors, Messrs. Wilson, Bristows and Carpmael, 1; Copthall Buildings, E. C.

Honorary Architect, Col. Robert W. Edis, F. S. A., F. R. I. B. A., 14, Fitzroy Square, W.

Honorary Auditors, Messrs. J. O. Chadwick and Son, 95, Finsbury Pavement, E. C.

Bankers, Messrs. Coutts & Co., Strand, W. C.

Offices in London, Society of Arts, John street, Adelphi, London, W. C.

Offices in Chicago, Victoria House, Jackson Park, Chicago.

Great Britain's building, which is officially known as "Victoria House," (so designated by special permission from Her Majesty, Queen Victoria) occupies a prominent position on the shore of the lake, near the pier. It is generally characteristic of the best type of English half-timber houses of the sixteenth century. The upper portion is of half-timber construction in natural oak with overhanging and projecting gables and tiled roof. Terra-cotta is used extensively in the lower story, with red brick facing and mullioned windows, so as to be seen from all points; each façade has been treated architecturally. The plan forms three sides of a quadrangle, with the open side next to the lake, inclosed by a raised terrace with balustrade. The center on the front or inland side is recessed, with steps leading from both sides up the covered portico, which opens into a large central hall. Off from one side of the hall are a library and reception-rooms, and from the other side the Secretary's office and other rooms required for the work of the commission. On the first floor are a large suite of rooms and offices. On the second floor are rooms for the meetings of juries, receptions, etc., for its own use and that of Colonial Commissions. The walls and ceilings of the principal rooms are elaborately panelled after the fashion of old English country houses, and the fittings and furnishings were specially designed for the house.

In the grand hall and staircase is a modeled plaster ceiling copied from one in Plas Mawr, Conway, North Wales, built about 1550, and generally known as "Queen Elizabeth's Place." Another plaster model, over the grand staircase and principal landing, is taken from one at Haddon Hall. Enriched plaster work is also seen in the paneling and chimney pieces. The furniture of carved oak is in the Italian style of the renaissance. A cassone is reproduced from an old Florentine example in the Royal Palace at Naples and it is enriched with a painted frontal panel on gilt ground, in allegorical portrayal of the departure of Columbus from Spain. The remainder of the settees, tables and chairs are designed on similar ancient lines, some of the carvings being copied from examples that belonged to the Medici family, now in the Pitti Palace at Florence. In the reception room the modeled plaster ceiling is reproduced from that in the banqueting hall at Crewe Hall, the seat of Lord Crewe, and one of the finest examples of Elizabethan architecture in England. The library is entirely of oak. The ribbed ceiling is of geometrical form and the bookcases extend from floor to ceiling. The dining-room contains a modeled plaster ceiling reproduced from the famous one in Campden House, Kensington, and the carved oak paneling and furniture illustrate a simpler treatment of a modern dining-room of Elizabethan character. The embossed leather on the walls was first executed for the new ball room at Sandringham Hall for H. R. H. the Prince of Wales. The floors of the principal rooms are laid with hand-made real Axminster carpets. The whole house is tastefully ornamented with dog stoves and fireplace fittings, grates and over-mantels, floor mats, etc., and the walls are handsomely decorated with banners. In the vestibule are two terra cotta panels, "The Prodigal Son" and "Pharaoh at the Red Sea," while in the garden and grounds are a handsome fountain and a large group of America executed in terra-cotta.

The space occupied by Great Britain and the Colonies in the buildings and grounds amounts to more than 500,000 square feet, of which about three-fifths

is occupied by Great Britain. This is the largest area ever occupied by the British Section at any foreign international exhibition. At Vienna, 1874, the space occupied was 169,827 square feet; at Philadelphia, 1876, 194,381; at Paris, 1878, 363,018; at Paris, 1889, 232,845.

Allotments have been made in the following buildings: Agriculture, Forestry, Live Stock, Fisheries, Mines and Mining, Machinery, Transportation, Manufactures and Liberal Arts, Electricity, Fine Arts, and Women's Building.

The most important exhibits are in the Manufactures Building. The space in this department forms one of the blocks in the center of the building at the junction of the main avenues. The exhibits made by the Royal Commission include pottery, porcelain, glass, art furniture and decoration, textiles, etc. In the galleries above are placed the educational and photographic exhibits, and the loan collections from the government departments, school board, etc. Many of the most important English manufacturers are represented, and their exhibits are arranged along the central gangway of the building. Furniture, by some of the principal makers, is also shown in this department. In the division of textiles, the contributions of the Irish linen manufacturers are important. A fine show of jewelry, and of goldsmiths' and silversmiths' work, including a unique collection of reproductions of old Irish gold work, is placed in this building. Chemical products form a large and important class.

In the Department of Electricity the British exhibitions are not very numerous. The display includes a historical collection lent from the British Postoffice Telegraph apparatus, as well as contributions sent in by commercial firms. The large share English electricians have had in developing electrical science and its practical applications is shown. The first electrician was an Englishman, Gilbert. It was in England that a practical telegraph line was first worked out by Ronalds in 1816. There are no names more closely associated with the early development of the science of electricity than those of Davy and Faraday. The introduction of telegraphy must inseparably be connected with Cooke and Wheatstone; while the early history of the dynamo would be incomplete indeed without reference to Wilde and Holmes. In England, electricity was first applied to the working of railways, and there nearly all the submarine cables of the world are made.

In the Department of Mines and Mining a typical collection of economic British minerals has been made. This includes interesting series of specimens of barytes from Bantry, Ireland, and a similar series from County Leitrim. Specimens of barytes from Snailbeach mine, Shropshire, and from Mawsden mine, Derbyshire. Clay used for the manufacture of fine white earthenware, technically known as "Blue Ball Clay," is shown, and it is interesting historically to note that this clay was used by Joseph Wedgwood in 1791. The North Devon Clay Company, of Torrington, Devon, sends a series of specimens of clay, and a photograph showing the open workings. The clay is cut by one man in a straight line, and then is cut across by a second; a third undercuts with an adze, clearing out the clay in 8-inch cubes. Specimens of copper pyrites, iron ore, red hematite ore, lead ore, tin ores, witherite, zinc-blende and calamine; also collections of coals, alum-stone and uranium from various mines in the United Kingdom are exhibited. At the close of the Exposition the entire mineral collection is to be presented to some American museum, yet to be determined upon.

A collection of photographs, illustrating the best work of amateur and professional photographers in the United Kingdom, has been arranged by the Royal Commission and is shown in the Department of Liberal Arts. Here is found a loan collection of photographs, to which contributions were made by most of the leading British photographers, professional and amateur. Engravings and fine art publications are shown by some of the principal fine art publishers. In this department may be seen an interesting collection of newspapers, educational appliances, scientific instruments, etc.

An important part of the British section is found in the Transportation Exhibits Building. The London and North Western railway show an engine and carriages. The Great Western railway exhibits a broad gauge engine. The Great Eastern, Midland and Irish railways also exhibit. There is a full collection of cycles contributed by nearly all the leading makers. A very large collection of ship models by the principal ship building and marine engineering firms, as well as by the most important steamship companies, is also shown in this department. In this building are also some interesting loans; a model of the Forth Bridge, a collection of pictures of carriages by the Institute of Coach Builders, etc.

The British machinery exhibits, while not very large, are fine. The Gallows of Manchester show a 400 HP. engine, and Willans & Robinson a 350 HP. engine, to drive the machinery. Perhaps the most important exhibit in this building is the cotton cleaning machinery, by one of the principal makers. There are also looms, spinning frames, steam hammers, and printing machinery.

The Agricultural section includes food. Here Great Britain is well represented. In spirituous and other liquors there are many exhibitors. Mr. Burdett-Coutts, M. P., is showing a fine model of his stud farm.

In the Department of Fine Arts devoted to the British section are a number of handsome and valuable paintings, etc., loaned from their collections by Her Majesty the Queen, The Prince of Wales, The Duke of Edinburgh, The Duchess of Albany, Earl of Aberdeen, corporation of Birmingham, General Beadle, Archdeacon Farrar, Countess Cairnes, corporation of Brighton, The Earl of Eldon, Sir Willifred Lawson, the corporation of Oldham, Lord Monkswell, the corporation of Leeds, Sir John E. Millais, Sir Sydney Waterlow and hundreds of others.

Early in the work of arranging for the Exposition the Royal Commission appointed a committee of ladies, of which H. R. H. the Princess Christian is president, to superintend the arrangements for the British section of women's work.

This committee organized a series of sub-committees to deal with special branches of women's work, as mentioned below, and the following ladies undertook to supervise their several departments:

Education—Mrs. Fawcett.

Handicrafts—Lady Roberts.

Lace—Duchess of Abercorn.

Literature—Mrs. Gordon.

Needlework—Lady Henry Grosvenor, Lady Amherst.

Nursing—Mrs. Bedford-Fenwick.

Philanthropic Work—Baroness Burdett-Coutts.

Portrait Gallery, Music and Vestibule—Mrs. Roberts-Austen.

Ireland—Countess of Aberdeen.

Scotland—Countess of Aberdeen.

Wales—Lady Aberdare.

A very fine collection, representing the most important branches of women's work in the United Kingdom, has been sent by the Ladies' committee. A number of excellent and comprehensive papers on questions of special interest to women have been promised for reading and discussion at the Congress to be held during the Exposition.

Among the Colonies, Canada is the largest exhibitor, as might naturally be expected. She is showing largely in the Agricultural and Mining Buildings, as well as in the Manufactures. The Canadian Commission put up a special building in the grounds for their offices. New South Wales is the next largest. Her principal exhibits are minerals, wool and timber. The Cape makes a good exhibit, notably diamonds. Ceylon has a pavilion and a creditable exhibit in several of the departments.

The Indian Government at first refused to take an active interest in the exhibition, but eventually gave a sum of 40,000 rupees to the Tea Planters' Asso-



BUILDING OF HAYTI.



BUILDING OF GUATEMALA.

ciation to promote an exhibit of Indian tea, and also made a small grant to Indian art dealers of Delhi, to assist in making an exhibition of Indian art ware. Several firms exhibit Indian art productions.

In a general way all the arrangements of Great Britain were well advanced before the opening, and much credit is due to Sir Henry Trueman Wood, the secretary, and to Mr. Lloyd, his assistant, for the splendid ability shown in handling all important matters that have come before them.

Visitors from England and Canada have the opportunity of enjoying the comforts and privileges of a first-class club during their stay in Chicago. The British and Canadian Exchange Club has been incorporated and has commodious rooms on the second floor of the Auditorium. It is an Anglo-American club, a limited number of Americans being admitted to membership. The club's quarters in the Auditorium include gentlemen's reading, writing, reception and smoking rooms; ladies' drawing, reception and toilet rooms; postoffice and information bureaus, offices, etc. The reading room is well stocked with American, English and Canadian publications, and excellent facilities are afforded for social intercourse, reception and dispatch of mail, cashing of drafts, providing hotel and other accommodations, selection of routes of travel, and in short, nearly everything foreign visitors may desire. The club was opened March 1, and will be maintained until the end of the year.

GREECE.

Mr. Charles L. Hutchinson, President Royal Commission; Mr. D. Jannopoulo, Royal Commissioner.

The exhibit made by Greece consists largely of wines, liquors, figs and raisins. There are twenty-five contributions of the first, twenty of liquors and a dozen firms showing dried fruits. Greece has taken an unusual interest in the Columbian Exposition, and a large number of people from Athens and the leading cities will visit America this summer.

GUATEMALA.

Manuel Lemas, President of the Commission; Dr. Gustavo E. Guzman, Vice-President; Ignacio Solis, Secretary; Leon Rosenthal, Treasurer; Señor Don Geo. C. Monzon, Attache.

The Guatemala Building is square, with 111 feet at each side, and occupies a total area of 12,500 feet. The architecture is original, but in no way classical. It is kept in Spanish style and corresponds well with the country it represents. The height of the first floor is 24 feet. In the center of the building a large court is arranged, 33x33 feet, with a gallery built upon colonnades of two floors. This court resembles the old patios in a Spanish house, and gives freshness and ventilation in the entire structure. In the center of the court there is a fountain from which the water plays as from a big rock. On each of the four corners of the building there is a tower 23x23 feet, surmounted by a beautifully decorated dome. The entire height of each tower is 65 feet. In two of the towers there are two large staircases, giving access to the gallery above, which extends as a terrace around the entire building. The construction is in wood, iron and staff, and the ornaments represent fruits and flowers, all in an original and light character. There are four large rooms on the first floor, and on the second floor a large reception room, with two offices and toilet rooms. All the exhibits from Guatemala will be found in this building, the most interesting of which is coffee, and how it is cultivated and marketed.

At a distance of about thirty-five feet from the main building is a rustic hut, 70x25 feet, and at the end of the same is a small kiosk, adapted for testing the coffee. The entire space around the building is converted into a large garden representing a coffee plantation, banana trees and other plants. Indian tents are placed in a corner of the grounds, and a landing place has been constructed opposite the principal entrance on the lagoon. The building cost \$40,000.

HAYTI.

Hon. Frederick Douglass, Commissioner; Mr. Charles A. Preston, Commissioner; Mr. Alfred Harris, Secretary; Mr. Gustave Stromberg, Attaché.

The Hayti Building lies to the southwest of the German Building and adjoining that of New South Wales. It is in the Greco-Colonial style, surmounted by a gilded dome, which is copied after the State capitol of Massachusetts. The structure has a frontage of 126 feet, including piazzas 12 feet wide which surround three sides of the building. In the center of the façade is the coat-of-arms of the Republic of Hayti in a medallion surrounded by a scroll bearing the following inscription: "*Republique Haitienne*," and the dates 1492 (the discovery), 1804 (date of Haytian national independence) and 1893 (the present anniversary). On entering the building one comes into an exhibition hall 50x50 feet, in the center of which are eight Doric fluted columns supporting the dome. The decorations consist principally of red and blue bunting, the national colors, with flags and escutcheons. The exhibits in the pavilion consist principally of agricultural and forestry products, with some specimens of native industry in a general way. There is also displayed some pre-Columbian relics and the authentic anchor of the caravel Santa Maria, the mate to which was loaned by the Haytians to the Columbus collection in the Convent of La Rabida. The sword of Toussaint L'Ouverture is also shown among other relics of the struggle for independence. Opening from the main hall through a ten-foot archway is another exposition hall, at the rear of which Haytian coffee, prepared by native hands, is served. The entire left wing is given up for reception rooms and executive offices.

HONDURAS.

Messrs. Good & Fellows, 835 Rookery Building, Chicago, Representatives.

Honduras makes a collective exhibit in the Department of Agriculture, and shows specimens of cigars, tobacco and sarsaparilla.

Very interesting Kopan relics of Honduras are exhibited in the Anthropological Building.

INDIA.

Richard Blechynden, Royal Commissioner.

The East India Pavilion is a rectangular building of staff, 80x60 feet. It is entered through a lofty gateway surmounted by four minarets, and is profusely ornamented in an elaborate arabesque design. The gateway, as is customary in structures of this style, forms the principal architectural feature of the building and it is here that the ornamentation is most fully carried out, and is reinforced by paintings in vivid oriental colors in strict keeping with the design followed, the whole having a rich and harmonious effect. On either side of the entrance are arcades lavishly decorated with relief work, bracelet and ornamentation. The minarets surmounting the gateway are repeated at the corners of the building, and spring from a parapet, the panels of which are covered with designs. Below the parapet and running round the building are sloping eaves, a very characteristic feature of the style followed. Internally the pavilion consists of a large hall, lighted from above, and with a broad gallery running round it on three sides to which access is given by the staircases. The building is erected by the Indian Tea Association of Calcutta, at a cost of \$15,000, to contain exhibits of tea grown in different provinces of India. Here tea of every kind is displayed and is distributed in the cup. It is served by Indian waiters in Indian costumes. An original collection of photographs especially made for the purpose, is exhibited, showing the manufacture of tea in various stages. The tea industry is one of the most important in India, giving employment to thousands of people. Some of the wildest tracts of the country have been reclaimed from a state of virgin forest and converted into thriving gardens by the energy and capital of tea planters, and within the last thirty years the production of tea in India has arisen to one hundred million pounds in weight. Exhibitors from Delhi, Bombay, Calcutta and Sinila, show many art-manufactures of India and Burmah, as well as those of the governments of their highnesses, the Hizam of Hyderabad, and the Maharajas of Mysore, Patiala and Jodhpore. The exhibits consist of silver-

ware from Kashmir, Madras, Poona, Katch, Kattack, Lucknow, Delhi and Burmah, viz.: in vases, tea and coffee sets, claret jugs, etc.; carpets and rugs; shawls, wood furniture, carved and inlaid with brass and ivory in ebony, sandal, shisham, rose and teak woods; ornamental copper wire, enameled, encrusted and embossed; hand prints in colors and wax from every province of the Empire; brass ware, engraved and embossed; papier mache articles from Kashmir; hand painted pottery; embroideries, in silk, tinsel, real silver and silver-gilt thread on silk, cotton, muslin and other stuffs in the shape of ladies' ball and evening dresses, tea-gowns, fronts, cuffs, collars, strips, etc.; marble and other stone wares in inlaid mosaics, carvings and sculptures; woolen embroideries, in curtains, portiers, table covers, etc.; sandalwood boxes, frames and panels, inlaid, mosaic and decorated with ivory, tortoise-shell and horn; silks from Surat, Assam, Mysore, Madras, Bengal, Bombay, Benares, Burmah and Hirat, also raw Cora, Assam and Tassar silks; bidri ware, silver encrusted; tinsel decorated cotton stuffs; moradabad chased and lac-inlaid brass ware, such as lamp stands, vases, trays, etc.; ivory carvings and models from Burmah, Mysore, Murshedabad, Surat, Delhi, Patiala and Vizagapatam, in images, etc.; Indian arms (new-for decorative purposes) ornamented with silver, metal and ivory, etc., all fac similes of old arms; damascened metal wares, inlaid with gold, silver and other metals; paintings on ivory, in miniature likenesses of the Moghul Padshahs and Sultanas and other leading personages. Also miniature paintings of architectural monuments; enamels on gold and silver; bronze and brass castings, in the form of animals and images; fans from Burmah, Tanjore, Sanantwadi, Poona, Surat and Benares; toys, lacquered and painted on wood; models in terra cotta, made by artists from Lucknow, Krishnagurh in Bengal and Poona—a unique exhibit never previously shown on so large a scale and representing "India in a nut shell." The models are all art-sculptures and represent buildings from almost all parts of the Empire, as well as many ancient monuments, street, bazaar and house scenes, durbars, burial processions and grounds, temples, wedding and betrothal ceremonies, religious worship and customs, satti (a wife-sacrificing her life on the funeral pile of her deceased husband, a practice now extinct); indigo and shellac factories; agricultural models, (illustrating the process of plowing, sowing, mowing, threshing, etc.); bazaars, vendors of commodities, and fruit and vegetable stalls. There are also models of artisans with their tools and appliances; of the means of transport by land, river and sea; and of the different tribes and castes of India. This class of exhibits is composed of several thousands of most artistic figures dressed in the costumes worn by the people. Then come shoes, as worn by the natives of the country; hand painted wood ware; pure Kashmir woolen stuffs, plain and embroidered; semi-precious stone jewelry, such as garnets, lapis lazuli, onyx, cornelian and jade, as worn by the Hindus; photographs of scenery, monuments of note, towers, street-life, types, castes and customs of the people. Also a set of photographs illustrating the process of elephant catching in the Mysore state; antiquities and curios collected from all parts of the Empire, Burmah and Thibet, such as arms, bronzes, coins, stuffs of every description embroidered and printed in cotton; wool and silks, chinaware, manuscripts and paintings; articles historical, religious and otherwise instructive, in bronze, wood, ivory, iron, silver and other metals. There is an inquiry office in the building and information is given regarding the manufacturers, imports of agricultural, raw and economical products, and the commerce of the Empire. The India Building is unlike any surrounding its location, which is close to the buildings of Sweden, New South Wales and Hayti. Every feature of its construction is Oriental and it is one of the most quaint and artistic on the grounds.

ITALY.

H. E. Marquis Enrico Ungaro, Royal Commissioner General; Count Detalmo Brazza di Savorgnan, Royal Commissioner; Dr. Ettore Candiani, Commissioner; Signor V. Zeggio, Royal Commissioner; Chev. Thomas Silombra, Commissioner; Signor Angelo del Nero, Commissioner

for the Fine Arts; Count R. Piola Caselli, General Secretary; Chev. L. Caldarazzo, Secretary; Signor G. Vigna dal Ferro, Secretary; Signor L. D'Urso, Secretary; Chev. G. Guetta, Official General Agent.

Italy occupies in all the departments to which she contributes about 70,000 square feet. The entire number of Italian exhibitors exceeds 1,500, of whom 665 make exhibits in the departments of Manufactures and Agriculture. The exhibits sent here by Italy and exhibited in the Manufactures section, are very largely works of industrial art, such as bronzes, marble for construction and decorative purposes, tapestries, embroideries, silken fabrics, Venetian glass, Venetian laces, cabinet-ware, inlaid woodwork, mosaics, jewelry, intaglio works, coral, etc.; specialties in manufactured delicacies for the table, such as sardines, spiced tongues and fish, and dainties of a like character. Italy occupies a court in the Manufactures Building to the south, and another on the balcony to the west.

In the Liberal Arts department are educational and musical exhibits of various kinds.

Specimens of nearly every article the fertile soil of Italy produces are shown in the Department of Agriculture.

In the Department of Horticulture the well known wines of Italy are shown, including all the brands of clarets—Barbera, Barolo, Nebiolo, Grignolino—from north of Italy; the fine champagne types from Asti and Treviso; the various Chianti's types from Eascary; the Cesanese, Abatics, Marino and Genzans from the Roman Campagna; the strong wines from Basilicata; the celebrated wines of the Vesuvius territory; Lachryma Christs, Falerna, and other sparkling qualities; the white and red wines of Capri; the selection of Sicilian wines, including the nectars of Syracuse and the legendary Marsala; beside oils and preserved fruits, oranges, lemons, olives, dates, etc.

In the Department of Mines and Mining are shown specimens of iron, copper, sulphur and lead from Sicily, Sardinia and Elba; every quality and description of marble from the quarries of Serravezza, Carrara and Castellino, also alabasters and stones from the Alps, the Apenninco and the Adriatic section.

In the Fine Arts department the display of Italy is made in the five center rooms of the west pavilion, in the west court, and in the balcony alcoves of the north court of the Art Palace. Though ancient in design and mostly a representation of the grand days of Italian supremacy in art, the commissioners expect to interest visitors in a special type of exhibits which no other country in the world can produce. Rome in all the magnificence of its early days is illustrated and the many historical treasures of the Vatican cannot fail to elicit admiration and furnish food for reflection. Italian artists who are exhibiting number two hundred. The number of the works reach one thousand. They consist of oil paintings, water colors, statuary and bronzes. Angelo del Nero, the Royal Commissioner of Fine Arts, was the pioneer in Italy of the World's Columbian Exposition. Since November, 1889, of his own individual effort, he promoted, among his fellow-citizens and through the press, Italy's participation in the Exposition, traveling during the year 1890 from one end of his country to the other, agitating the question. In 1891 he came to America, residing for the most part in Chicago in order to become familiar with and to study the magnitude and the benefits to be derived from the great enterprise. Appreciating his effective labors and his earnest interest so zealously manifested, the Exposition authorities sent him to his own country as the special commissioner for the Department of Fine Arts, where his indefatigable work of promotion led the Italian government to officially recognize the art committees which had been previously formed through his personal efforts and to make an appropriation for the free transportation of the Italian exhibits. His enterprise, zeal and enthusiasm have also largely benefited the interests of the Bureau of Music, of the Latin-American bureau, of the woman's department and those of Publicity and Promotion.

During the period of the Exposition each commissioner has his office



BUILDING OF EAST INDIA.



BUILDING OF JAPAN.

in his own department. Signor del Nero, Commissioner of Fine Arts, has his office within the main south entrance to the west pavilion of the Art Palace, near 57th street station; Chevalier T. Silombra, Commissioner of Agriculture; on the west balcony of the Horticultural Building. Signor V. Zeggis, the Royal Commissioner, occupies an office on the northwest balcony in the Liberal Arts section, and Chev. Dr. Candiani, the Royal Commissioner for Industry, has an office in the Italian court in the Manufactures Building.

Countess de Brazzi, President of the Woman's Commission to Italy, and Mrs. Leopold Mariotti, Secretary, are carrying out the design of the Queen for the display of royal laces. These laces, which belong to the House of Savoy, have never before been out of Italy, and Mme. Mariotti has signed a contract in which it is stipulated that she alone will have the care of them. This exhibit was shipped in charge of twelve sailors of the royal marine or navy, one of whom remains on guard day and night. The Italian pavilion is located in the south section of the Woman's Building, between the Japanese and French pavilions. At the rear of the booth is an arch over which is spread drapery of green silk. This is covered with the laces to represent a lace Niagara. Leading up to the arch are a number of steps upholstered in red, like the throne-room in the Quirinal. The design of the room is of the fifteenth century period. The furniture was carved in Venice. Two sentinel figures of the same period present arms toward the lace just inside the wrought-iron gate which closes the entrance to the portal. The gate, which was made in Venice, is so finely wrought as represent a piece of delicately woven black lace. On the interior of the court is the image of a woman making lace, every part of which was carved by women. She is clothed in linen which was planted, spun and woven by women.

JAPAN.

H. E. Gozo Tateno, Vice-President of Commission; Honorable S. Tegima, Imperial Commissioner; Mr. C. Matsudaira, Imperial Commissioner; Mr. M. Kuru, Official Architect; Mr. T. Uchida, Secretary; Mr. H. Ishizawa, Secretary; Mr. K. Tawara, Secretary; Mr. H. Akiyama, Secretary; Mr. Y. Yambe, Secretary; Mr. H. Shimamura, Councilor; Mr. U. Saito, Councilor; Mr. K. Niwa, Councilor; Mr. S. Nishimura, Councilor; Mr. M. Taketo, Councilor; Mr. K. Watano, Councilor; Mr. J. Takamine, Councilor; Mr. R. Hayakawa, Councilor; Mr. Shioda, Councilor; Mr. S. Okamoto, Councilor; Mr. S. Amano, Examiner of Art Works.

The Japanese Building on the wooded island is modeled after the main plan of the Hoodo (Phoenix Temple), hence called Hooden, and consists of three separate buildings connected by wide corridors. They represent respectively the styles of three different epochs of Japanese history, but are unified by the general architectural design. The south wing is in the style of the Ashikaga period of about four hundred years ago. The north wing is in the style of the most prosperous time of the Fujiwara period of about eight hundred and fifty years ago. The main hall represents the style of the Tokugawa period of about one hundred and fifty years ago. These buildings follow the general ground plan of the original Hoodo, which is one of the famous historic temples built eight hundred and forty-two years ago, and is still existing at Uji, the district noted for tea plantations, near Kyoto. These buildings are of unpainted wood, and the principle of Japanese construction and proportion is wholly adopted. The roofs of the same are covered with sheet copper according to the Japanese method. The floors, excepting that of the north wing, are furnished with thick mats, while the latter is covered with boards. The ceilings of the main hall, except two side rooms, are divided into small square panels of lacquered boards, and each of these is painted to correspond with the adjoining parts, while those of the two rooms are elaborately painted with figures of the Phoenix in gold and other colors. The wall space and surface of the sliding doors in every room are decorated with paintings of the same subject, the Phoenix, to suit each room. The work of interior decoration was undertaken by the Tokyo Art Academy, and the furniture and art works in the exhibition are selected by the Imperial Museum. All represent the three epochs to which they belong. The principal design of the building was made by Masamichi Kuru,

the government architect of Japan, and the builders are Okura & Co., who have sent a number of their workmen to Chicago. Japan's exhibit in the Woman's Building, is one of the most interesting of the Exposition. A space of 800 square feet at the left side of the entrance at the northern part of the building is occupied by an exhibition of Japanese women's work, including pictures (pure Japanese style), oil paintings, carvings, cocoons, raw silk, fabrics, embroideries, crinkled textures and crapes, *yuzen* (a Japanese fabric), hand woven Gobelin, *oshie* (relief pictures), lace, china ware and china painting, cloisonne, lacquer, artificial flowers. There is also a ladies' boudoir shown, all strictly in Japanese style and specially prepared in Japan. Japan also has a handsome pagoda in the Manufacturers' Building; a good exhibit in the Fisheries, and a garden in Horticultural Hall transplanted from Japan.

In the Department of Agriculture are shown specimens of rice, tea, vermicelli, macaroni, confections, sea food, tobacco, cigarettes, cocoons, hemp, fibres, mineral waters, saki, vinegar, soy, malt, glue, seeds, oils, wax, candles, bamboo works, ornamental and fossil woods, baskets, forest products, maps of flowers, umbrella handles, toothpicks, writing paper and envelopes, rattan work, etc.

In the Department of Horticulture are seen artificial fruits, persimmons, chestnuts, bamboo flower baskets, illustrations of lilies and maples, orchids, chrysanthemums, sago palms, ornamental leaf plants, cut flowers, canned mushrooms, seeds, fruits, preserves, jellies and jams, fruits in wax, plants, native leaves, etc.

Salt, iron oxide, red lead, sulphur, copper, tin and brass foils, antimony, gold and silver leaf and geological maps, reports and descriptions of the mineral resources of Japan are shown in the Department of Mines and Mining.

The machinery in use in Japan is illustrated in the Department of Machinery by exhibits of shuttles, tools for woodwork, printing utensils, etc.

In the Department of Transportation Exhibits are seen toy carts, baby carriages, models and diagrams of men-of-war, cruisers, tables and photos of railroad lines, bridges, tunnels, etc.

Perfumes, soaps, matches, joss sticks, toilet preparations, drugs, fireworks, chemists' wares, paper and paper articles, wall paper, inks, stationers' articles, writing brushes, imitation leather work, stenographic apparatus, cards, lacquer ware, screens, furniture, window curtains, pictures, fancy boxes, articles for house decoration, embroidery, ornaments in antimony, crystal and lacquer, bamboo work, silk fabrics, picture frames, art metal work, chinaware, faience, porcelain, stoneware, pottery, incense burners, niello work, cloissonneware, glassware, carved woodwork, carved ivory, bamboo carving, silverware, ornaments, charms, buttons, pins, raw silk and silk fabrics, crapes, gauses, ramie fabrics, mattings, braids, threads, cotton fabrics, feather fabrics, woolen fabrics, clothing, boots and shoes, underwear, gowns, furs, tapestry, fans, artificial flowers, laces, tapestry, trimmings, hair pins, combs, brushes, parasols, satchels, leather goods, canes, lunch sets, umbrellas, pipes, mirrors, gutta percha water proof cloth, dolls, drums, toys, bird cages, picture books, scales, swords, lamps, lanterns, lamp shades, electric light fixtures, candlesticks, dusters, pocket warmers, iron posts and pots, tea pots and kettles, knives and scissors, safes, edge tools, razors, etc., are grouped in the Department of Manufactures.

In the Department of Liberal Arts Japan shows surgical instruments, optical, pharmaceutical and dental appliances, educational reports, text-books and diagrams of school buildings, school appliances, pictures, drawings, slates, maps, books, charts, photographs, postal system, prison records, statistics of trade and commerce, coins and metals, musical instruments, toys, statistics of life insurance, maps and tables showing lighthouses, lines of navigation, telegraphic and telephone routes, public engineering, wharf building, etc.

In general Japan makes one of the most interesting and creditable displays of all foreign countries. There are many reasons why one of the oldest of nations should be congenial with one of the youngest. There is no doubt that a

part of the original civilization of this continent was due to adventurous tribes akin to the Japanese, and the monumental architecture of Mexico as well as reasonably credible historical records almost demonstrate that an early bond existed in arts, religions and traditions among the native American races and the people from the Pacific. The Japanese are realizing keenly the importance of assimilating modern ideas and of accepting western customs. They are gentle, modest, studious. The beauty of their country pervades their nature, and they are intuitively decorative. There are in all about 300 Japanese exhibitors, a large representation considering the limited scope of industries in their country and the expense attaching to their transportation of materials and men. They are fast overtaking other foreign merchants in certain lines of natural products as well as of manufactured ones. They present seventy-two exhibits of rice alone and fourteen of vermicelli and macaroni. There are two hundred and fifteen exhibitors of tea and tobacco. Silk from the cocoon, carried through all processes up to the soft draperies, is an attractive feature to visitors from all countries. In sericulture—the raising of silkworms—they are probably unrivaled. Judgment varies among Western critics concerning the intrinsic worth of their fine arts, especially the pictorial. But there is no division about the sincerity and ardor of their addiction to beautiful forms nor of the universality of the decorative idea throughout their industries. Their own carpenters, painters and decorators did all the work in preparing their portion of the exhibits. They have grown quite accustomed to our ways, and do not surrender their methods in favor of ours unless the superiority of the new over the old is apparent. Their artisans are among the most diligent, painstaking and prompt in the Park. Their catalogue was the first presented to the catalogue compilers. It was mechanically faultless, and written in good English. The installation of their exhibits has proceeded with smooth and judicious direction, so that it lacks nothing in completeness. Their officials are suave, patient and efficient.

JAMAICA.

Hon. Lieut.-Col. C. J. Ward, C. M. G., Commissioner; Mr. George Augustus Douët, Assistant Commissioner; Mr. Edmund Haughton Sanguinetti, Secretary.

Tobacco, cigars and cigarettes, cocoa, coffee, chocolate, Kola beans and powder, sugar, ginger, pepper, nutmegs, assorted fibres, kuskus grass, aerated waters, rums, cordials, wines, rice, starch, tapioca, arrowroot, cassava cakes, banana meal, oils, pimento, pickles, native woods, india rubber, seeds, etc., are shown from the Island of Jamaica in the Department of Agriculture.

There are three groups in the Department of Mines and Mining embracing clays, pottery sand, salt, ochre and copper.

In the Department of Manufactures exhibits are made of drugs and pharmaceutical preparations, extracts, dentrifices, essential oils, fancy work, pottery, mats and baskets, hats, fibre work, leather, etc.

The history and laws of Jamaica, vital statistics, photographic views, law books and maps are shown in the Department of Liberal Arts.

JOHORE.

Dato Sri Amar d'Raja, C. M. G., Secretary to H. H. the Sultan, Commissioner; Mr. H. W. Lake, Deputy Commissioner

Owing to local troubles of a warlike character Honduras relinquished the space taken at the Exposition, and the commissioners from Johore at once took it. This occurred only a few days before the opening, but despite the short time in which to make ready its exhibit, Johore makes an attractive display.

A collective exhibit is made in the Agricultural Building, besides an outside space. It consists of krisses and seirongs, agricultural implements, weights, measures and coins, native woods, hides and skins, stuffed birds, and the Indian bungalo, which is a conspicuous feature. The tea culture of Johore is exemplified in a fine exhibit of teas shown in the Department of Agriculture.

KOREA.

Hon. Chung Kyung Won, Royal Commissioner; Mr. Ye Sung Soo, Special Commissioner;

Mr. An Key Sun, Interpreter; Mr. Chung Pong Hwan, Interpreter; Hon. Ye Cha Yun, Korean Charge d'Affaires.

Manufactures is the department in which the principal Korean exhibits may be seen. These include fabrics, silk and cotton, grass cloths, hemp, lion and tiger skins, furs, deers' horn, implements of war, and the chase, household ware, utensils, native costumes, inlaid ware, bric-a-brac, and curios. Some very large sedan chairs peculiar to the country are also included in the collection. Minerals from the kingdom are also exhibited

LIBERIA.

Hon. William E. Rothery, Commissioner; Hon. Alfred B. King, Commissioner; Mr. William C. Brockmeyer, Secretary.

Liberia makes an unclassified collective exhibit, installed in the Agricultural Building. Here, from the various tribes, are shown specimens of iron, fishing contrivances, canoes, charms, quaint musical instruments, ivory, idols, books of the Koran, jewelry, skins of native animals, oils, seeds, cane sugar and syrups, pepper, medicinal plants, nuts, native dyes, coins, minerals, dirks and knives, spears, bows and arrows, rice and coffee, palm oil, palm kernels, arrowroot, camwood, hardwoods, ivories and various articles showing the manners, customs and habits of the natives. The principal article is the Liberian coffee, which is a peculiar species, and has received the name of coffee Liberiansis by coffee experts. A peculiarly interesting exhibit, unique because of its rarity is a finely mounted specimen of a "hippopotamus Liberiansis." This animal was supposed to have long since passed out of the animal world. There are but two other specimens, one in London and one in Paris. This specimen was prepared by the Academy of Natural Sciences in Philadelphia, and will be returned to that institution after the Exposition. Liberia is the only civilized Christian negro state in Africa, and is exerting a wide influence in the enlightenment of those parts of the continent with which it comes in contact. The country is after the model of the United States Government. The means of communication between Liberia and America are poor, which is much to be regretted, because the people use the same language and have the same manners and customs as the Americans and present a field for the further development of American commerce. It is nearer to the United States than is Europe and still all the trade of Liberia is done with Europe. English and German steamers constantly visit the west coast of Africa.

MEXICO.

Señor Lic. Miguel Serrano, Delegate General; Engineer Fernando Ferrari Perez, Secretary General and Sub-Delegate; Señor Lic. José F. Godoy, Auxiliary Agent; Señor Don M. G. Torres, Commissioner; Señor Don A. D. y Hernandez, Commissioner; Señor Don M. H. de Azua, Commissioner; Señor Don A. R. Nuncio, Commissioner; Señor Don M. de las Piedras, Commissioner; Señor Don Othon de Palacio y Magarola, Commissioner; Señor Don M. M. Chabert, Commissioner; Señor Don Julio Poulat, Commissioner; Señor Don Rosendo Sandoval, Commissioner; Señor Don C. Sellerier, Commissioner; Señor Don J. D. Fleury, Commissioner; Señor Don Lauro Viadas, Commissioner; Señor Don F. Atristain, Commissioner; Señor Don R. Escobar, Commissioner; Señor Don Rafael Mallen, Commissioner; Señor Don A. M. Chavez, Commissioner; Prof. Mariano J. Garfias, Assistant Secretary; Señor Don José Oteo, Commissioner; Señor Don M. Caballero, Commissioner.

In the Department of Mines and Mining Mexico has made an exhibit which will astonish the world with the extent and wealth of the mining in that country. It consists of gold, silver, and copper ores, and in the consignment received and installed in the Mines Building there were 300 cases, and they averaged over 1,000 pounds each. Mexico also makes very creditable displays in nearly all the other departmental buildings. In the Department of Agriculture the raw products of the country, principally coffee and sugar, are shown. In the Department of Transportation Exhibits a fine display is made by the Mexican Central Railroad. Ore crushing and sugar machinery are shown in Machinery Hall. In the Department of Manufactures and Liberal Arts Mexico has 5,443 square feet, and the various manufacturing industries of the republic, and the educational and internal affairs of the government are there exhibited.

Mme. Diaz, the wife of President Diaz, has taken deep interest in the Woman's Department of the Exposition, and Mexico's display in this department is attractive and interesting.

MONACO.

A. Mackie, Commissioner; Mr. Louis H. Ayme, Assistant Commissioner.

This little principality has a collective exhibit in the Department of Electricity, and it consists in the main of tapestry, silverware and heirlooms.

NETHERLANDS.

Mr. George Birkhoff, Jr., Royal Commissioner General; Mr. Hubert Vos, Acting Commissioner of Fine Arts; Mr. A. Preyer, General Manager Fine Arts.

The Netherlands exhibit in the following departments: Agricultural, Horticultural, Fisheries, Transportation, Manufactures and Fine Arts.

The exhibit in the Agricultural department consists of sweet chocolate, cocoa, Dutch cake, arack, rum, gin, cordials, liquors, indigo and kapok.

The exhibit in the Horticultural department is entirely outside of the building and on the Wooded Island. It consists of a beautiful collection of roses, Darwin tulips, bulbs, climbing plants, trees and shrubs.

In the Fisheries department is exhibited an artistic herring boat, in full sailing order as seen on the ocean, at one-seventh of its original size.

In the Transportation Exhibits department is exhibited a collection sent by the Royal Institute of Engineers of Holland, showing the different waterways and public works of that country; there are also model Dutch sailing vessels on exhibition.

In the Manufactures department the exhibit consists of earthenware, porcelain, painted porcelain, tiles, mantel decorations, porcelain panels, marble statues, metal vases, church ornaments and windows, prescription and chemists' scales, imitations of wood and marble, etc.

In the Department of Fine Arts there is a fine collection of paintings of modern Dutch masters, contributed by 138 artists and consisting of 189 paintings, 108 drawings and 72 etchings. This collection is more important than the one sent to Paris in 1889.

In addition to this the Netherlands East Indian Colonies have in the Agricultural Building a pavilion, made of bamboo, nicely decorated, in which are exhibited the products of those colonies, consisting of rice, flour, cane sugar, palm sugar, tea, coffee, cocoa, pepper, cloves, cinnamon and other spices, tobacco, indigo, kapok and tin.

The Royal Commission has its office in the Netherlands exhibit of the Manufactures Building.

NEW SOUTH WALES.

Honorable Dr. Arthur Renwick, M. L. C., Executive Commissioner; Mr. Herbert J. Renwick, B. A., Private Secretary; Mr. Robert Hudson, J. P., General Superintendent; Mr. Thomas Pugh, Assistant General Superintendent; Mr. Alexander Bruce, J. P., Superintendent (Stock); Mr. Joseph E. Carne, F. G. S., Superintendent (Mines); Mr. W. Fitzwilliam Terry, Superintendent (Liberal Arts); Mr. Joseph F. McGuinness, Assistant Private Secretary; Mr. James Martin, M. P., Member of the Commission; Mr. C. C. Skarratt, Member of the Commission; Dr. Carl F. Fischer, Member of the Commission.

The New South Wales Building is classical in design and ornamentation. It covers an area of 4,320 square feet, being 60x60 feet in exterior dimensions, with a portico 12 feet wide extending across the front. There is a flight of three steps leading to this portico and extending across the front and ends of the same. The roof of this portico is supported by six Doric columns, two feet and six inches in diameter, and twenty feet high, with a cornice, frieze and balustrade extending round the entire building. At each of the corners is a large Doric pilaster corresponding to the columns of the portico. The entrance is in the center of the portico front. All openings have molded architraves and cornices, and each window has a pair of molded modillions under it. The exterior of the building

is staff. The central portion is occupied by a hall thirty feet in width, and extending the entire depth of the building. In the center is a polygonal dome thirty feet in diameter, the top being forty feet from the floor. This dome adds to the effect, light and ventilation of the whole, and is covered on the interior with ornamental staff. Arranged on three sides of the main hall are the various offices of the legation, eight in number. There is a large toilet room in the rear.

New South Wales makes a strong showing in nearly all the exhibit sections, principally in the departments of Mines and Mining and Liberal Arts. In the latter department the space occupied is in the west gallery of Manufactures Building. It is divided into five courts, and over the entrance is the Australian coat-of-arms made in a realistic way. The supports of the coat-of-arms are a kangaroo and an emu. In one court are all the rare birds of Australia stuffed and perched on native boughs. Some of them are of very brilliant plumage, and they range from the emu down to a humming-bird, which is pure white. In this room is also placed a group of four platypus. This is the species found in the southern hemisphere that science has never been able to classify. It is about the size of a beaver, has fur like a seal, a bill like a duck, eyes like a fish, is web-footed, lays eggs, hatches its young, and lives in the water. It is a sort of combination misfit, and is very rare. One of the courts is given up to the Technical College of Sydney, and illustrates all the work done there. Another is a model of an Australian newspaper office. The ethnological display is very rich, as it includes, as far as can be shown, the history of the aborigines of not only Australia but all of the South Sea Islands. One of the most attractive features is the photographs taken by the government artist. Under the coat-of-arms, and over the entrance, is a photograph of Sydney harbor, thirty-two feet long, and there are several eight feet long. The walls of all the courts are lined with photographs 40 by 50 inches, showing all of the public buildings, statues, mountain and water scenery, the banks, and many other objects of interest. There are also two collections of water colors. One is by Mrs. Rown of Sydney, and represents all of the animals of the country. The home government offered \$35,000 for the collection, but it is not for sale. The other is by Cayley, and is of the birds of the country.

In the Department of Mines and Mining the New South Wales exhibit attracts much attention, and it gives a good idea of the great mineral resources of Australia.

NORWAY.

Mr. Chr. Ravn, Royal Commissioner General; Mr. Annas C. R. Berle, Secretary Royal Commission; Mr. S. A. Buch, Commissioner of Fish and Fisheries; Mr. Otto Sinding, Commissioner of Fine Arts; Mr. Torolf Prytz, Commissioner of Manufacture; M. N. Kielland, Architect to the Royal Commission; Mr. Otto Enger, Assistant to Commission of Fish and Fisheries; Mr. S. Sinding, Volunteer Assistant to Commissioner of Fine Arts; Mr. I. K. Boyesen, Chairman of Royal (Local) Committee; Mr. O. A. Thorp, Secretary of Royal (Local) Committee.

The pavilion of Norway is located in the northeast end of the park between the Fine Arts Building and the pavilion of France. Its style of architecture is of the old Norse, so called Stane-kirke type, which dates from the eleventh century, and of which examples are still to be found in several old church buildings preserved in Norway as memorials from centuries ago. The historical dragon heads, which adorned the Viking ships of that and earlier periods, will be recognized in the similarly ornamented gables of the pavilion.

The building is 24x40 feet and is used as headquarters for Norwegians and as an office for the Norwegian Commission.

The Norwegian exhibit is found principally in the Department of Agriculture. It consists mainly of cheese, beers and ale, liquors, bitters, pure spirits, whale-bone, whale guano and other sea and whale products, oils, wood pulp, timber, etc.

In the Department of Horticulture are preserved vegetables, pickles, etc.

Fish products, aquatic birds, nets, seines, hooks, lines, harpoons and equipments for whales and porpoises, foghorns and lanterns, skin and oil clothing and



BUILDING OF NORWAY.



BUILDING OF NEW SOUTH WALES.

equipments, cured fish, cod liver oil, stearine, preserved fish, etc., peculiar to the fish industry of Norway, are shown in the Department of Fish and Fisheries.

In the Department of Transportation Exhibits are shown models of locomotive and railway cars, blocks and dead-eyes, mail wagons, sleighs, kariols, etc.

Wood-carving, beer tankards, drinking horns, portieres, wall hangings, jewelry, silver and gilt table ware, gold ornaments, diamond jewelry, watches, rugs, gloves, embroideries, brushes, dolls, stoves, mud protectors, etc., are shown in the Department of Manufactures.

Books, school material, publications and Norwegian statistics, drawings and desk for deaf mutes, reports and charts of Arctic expeditions, photos of scenery, statistical maps of mining and commerce, musical instruments, etc., are shown in the Department of Liberal Arts.

ORANGE FREE STATE.

E. R. Grobler, Commissioner.

An exhibit of uncut diamonds is made by Orange Free State in the Department of Mines and Mining.

PARAGUAY.

Dr. César Gondra, E. E. and M. P., President ad honorem; Dr. Emil Hassler, Commissioner General; Mr. A. R. Sainte Croix, Commissioner; Mr. Frederico Fernandez, Assistant Commissioner; Mr. Fidel G. Pierra, Assistant Commissioner.

Although any one coming to the Exposition from Paraguay must traverse the Atlantic twice and travel a dozen thousand miles, a number of visitors from that country are coming. In making the trip it is necessary to go to Italy, where a vessel can be taken for New York, Paraguay makes an interesting exhibit, the object being to show what an immense commerce could be maintained between that country and this—trade that now benefits Europe. With vessels making the trip direct, both the countries would be very materially benefited.

PERSIA.

Honorable E. Spencer Pratt, Commissioner General, Mr. Clarence Andrews, Assistant Commissioner.

Persia exhibits rugs, armors, carpets, etc., in Manufactures Building.

PORTUGAL.

Mr J. M. do Outeiro Ribeiro, Adjunct Commissioner, Mr. S. Chapman Simms, Vice Counsel and Secretary of Commission.

Portugal makes one of the largest and finest displays of wines to be found in the section of viticulture. It consists of fine old port, Madeira, sherry and champagnes in casks and bottles.

RUSSIA

H. E. Imperial Chamberlain P. de Gloukhovskoy, Commissioner General; Mr. Constantine de Rakouza-Soustcheffsky, Imperial Commissioner, Mr. A. de Tsherep-Spiridovitch, Imperial Commissioner; Mr. Alexis de Kobellatzky, Member of the Imperial Commission; Mr. Robert de Lingen, Imperial Commissioner; Mr. A. Zelenoy, Imperial Commissioner; Mr. Franz Utnemann, Imperial Commissioner; Mr. M. Bilbasoff, Imperial Commissioner; Mr. P. Andreiev, Delegate of the Ministry of War; Prof. Dimsha, Delegate of the Ministry of Public Instruction; Mr. B. Tedorov, Delegate of the Imperial Appanages; Mr. Wladimir de Weshniakoff, Imperial Commissioner; Mr. I. Lebedkine, Delegate of the Ministry of State Domains; Mr. A. Niedikhliaieff, Delegate of the Commission of the Central Asian Exhibition of Moscow; Baron Pillar von Pilchau, Delegate of the Imperial Appanages, Count Rostovtzeff, Delegate of the Ministry of State Domains; Prof. William Williams, Delegate of the Ministry of State Domains; Mr. A. Roppet, Architect, Imperial Commission; Prince S. Volkonsky, Delegate of the Ministry of Public Domains; Mr. T. Kamensky, Sculptor; Mr. E. Baikov, Clerk; Mr. Alexander Grinevsky, Imperial Commissioner

DELEGATES.

Ladies' Committee under the High Protection of Her Majesty Princess M. Shakhovskay, Maid of Honor of Her Majesty.

Charity and Educational Institutions of the Empress Mary: Mrs. T. Semetchkin; Mr. O. Aderkas, Councilor of College.

Ministry of War: Mr. A. Heard, Councilor of State; Mr. P. Andreev, Technological Engineer.

Ministry of Marine: Mr. D. Mertvaho, Post Captain; Mr. E. Kolbassieff, Lieutenant; Mr. N. Ogloblinsky, Lieutenant.

Ministry of Interior: Mr. Bernhard, Civil Engineer.

Ministry of Public Instruction: Prince S. Volkonsky, Gentleman of the Emperor's Bed Chamber; Mr. L. Dimsha, Professor of St. Petersburg University; Mr. T. Kovalevsky, Secretary of College.

Ministry of Finance: Mr. J. Ianschul, Actual Councilor of State, Professor of University of Moscow; Mr. D. Konovalov, Councilor of State, Professor of University of St. Petersburg.

Ministry of Public Domains: Mr. A. Plietnoff, Member of the Imperial Russian Commission; Count Stenbock-Fermor, Councilor of Court; Mr. Jigalkovsky, Councilor of Court; Mr. J. Lebedkine, Assessor of College; Count J. Rostovtsov, Secretary of College; Mr. M. Konshin, Secretary of College; Mr. M. Williams, Professor of Petrovsky Academy; Mr. P. Slieskin, Professor of Petrovsky Academy.

Ministry of Ways and Communications: Mr. A. Ryjoff, Councilor of Court; Mr. P. Protopopov, Honorable Councilor.

Department Imperial Appanages: Mr. M. B. Fedoroff, Councilor of Court; Baron Pilar Von Pilchau, Assessor of College.

Central Asian Exhibition at Moscow: Mr. A. Niedikhliaieff

Adjoints: Mr. G. Gagenfelden, Commissioner of the Board of Government Stamped Paper; Mr. I. Petrovo-Roppet, Architect; Mr. A. Protopopov, Delegate of the Imperial Technical Society; Mr. F. Kamensky, Sculptor; Mr. E. Baikoff, Employee; Mr. R. Meltzer, Etalagist.

The exhibits in the various departments made by Russia are valued at \$500,000. In the Department of Mines and Mining diamonds are a conspicuous feature of the Russian exhibit.

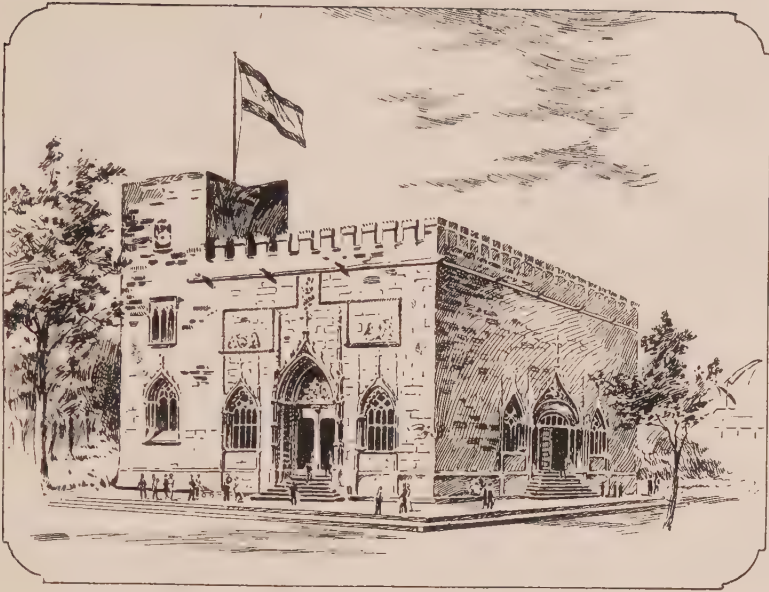
Russian paintings, statuary and other specimens of fine arts are exhibited in the art galleries, while in the Departments of Manufactures and Transportation Exhibits many specimens of Russian handiwork are shown.

In the Department of Manufactures can be seen one of the greatest collections of Russian furs ever shown outside the empire. The fur-bearing animals of the great Siberian steppes, as well as those of European Russia, have been drawn upon. The dressing and manufacture of furs into garments, for which the Russians are noted, are also here illustrated. Silverware of fabulous value; furniture, in which many of the valuable native woods, besides some remarkable effects in wood carving and ornamentation, is shown. There is a very complete display of silks in the various grades for which Russian silk manufacturers are specially noted, including some remarkable specimens of gold and silver weaving on silk backgrounds. Such methods of ornamentation are only common, even in Europe, when some priceless vestments for priestly use are being prepared, or some special decorations for court purposes are contemplated. In the ordinary commercial fabrics, such as cotton and woolen goods, Russia also makes an elaborate showing.

A special collective exhibit of Asiatic products is made. The Asiatic exhibit is part of a similar exhibit held in Moscow two years ago which attracted world-wide attention at that time. It contains a collection of implements, manufactures, arts and illustrations of the natural resources and methods of life in the oriental dominions of the czar. This is probably the only reliable exhibit of Asiatic products, customs and arts ever brought to America, and will be instructive in furnishing an accurate knowledge of the people of central Asia. There is also a large display of pianos by Russian makers. Then there are beautiful bronzes, malachites and marbles by leading manufacturers.

In the Department of Liberal Arts, Russia makes a fine showing. There is a complete exhibit by the principal governmental and private schools of the empire; also specimens of gold and silver embroidery, etc.

In the Department of Fine Arts over 200 works of art are shown. The Imperial Academy of Fine Arts at St. Petersburg has sent out what is probably the best collection of Russian paintings ever shown at a foreign Exposition. It is not claimed, however, that all the leading artists of the empire have contributed to the exhibit. The younger Russian artists are out in force, and many of the older ones with whose work the art world is familiar. The studios of St. Petersburg and Moscow are represented. The works of such distinctive Moscovite painters as Beroff are seen in the collection. The great works of Rapin,



BUILDING OF SPAIN-



Convent.

W.B. Convey Co. Chs.

CONVENT OF LA RABIDA.

Semiratsky and Makoffsky give a distinctively Russian tone to the exhibit. There is not much sculpture in the art display. There are some engravings and a few water colors. Oil paintings constitute the leading feature of the exhibit.

In the Shoe and Leather Building Russia shows the various grades of rubber and leather fabrics. A particular feature of the Russian leather exhibit is mosaic leather and stamped leather. There are twenty-eight exhibitors in the department of the shoe and leather exhibit, all being prominent Russian firms or corporations.

In the Department of Transportation Exhibits models of vessels, cables and chains, and maps and plans of railways, canals, etc., are shown.

In Mines and Mining the great Siberian mines are illustrated by maps, implements and statistics, and metallurgy is shown in various forms.

The electrical exhibit is small, there being only 200 square feet set apart for Russia in Electricity Building.

In the Department of Fisheries there are models of fishing craft and a valuable collection of specimens of all forms of the finny tribe found in Russian waters.

SIAM.

Phra Suriya Nuvatr, Royal Commissioner; Hon. Isaac Townsend Smith, Consul General, Assistant Commissioner; Luang Nephath Kulaphongs, Assistant Royal Commissioner.

Siam's exhibit is mostly of the products of the soil and manufacture, specimens of woods and especially of teak, which is used extensively in ship building, are shown. One piece is six feet broad, which is quite a curiosity. Exhibits of carving in ivory, work in brass, native vegetables and various fancy articles of manufacture are also made. The wife of the Siamese Commissioner has charge of the exhibits of the women of Siam. This exhibit is mostly of fancy work, crocheting and needlework. The King appropriated \$35,000 for the purpose of arranging the exhibit.

SPAIN.

H. E. Señor Don Enrique Dupuy de Lome, Minister Plenipotentiary, Royal Commissioner-General; Señor Don A. G. del Campillo, Secretary of Legation, Assistant Commissioner General; Don Rafael Pnig y Valls, Civil Engineer, Special Commissioner for Industry; Don Juakin Pavia, Architect, Special Commissioner for Fine Arts; Capt. Don Juan de Cologan, Royal Engineers, Special Commissioner of the Department of War; Lieut. Don Juan Ibarreta, Royal Navy, Special Commissioner of the Department of Navy; Don Rosendo Fernandez, Delegate of the Chamber of Commerce of Havana, Cuba; The Marquis of Villalobar, Attaché to the Legation and Commission; Don Manuel Perez Seoane, Attaché to the Legation and Commission; Mr. Hobart C. Chatfield-Taylor, Consul, Attaché to the Commission; Don Jaime Parlade, Treasurer, Attaché to the Commission; Don Juan Vilardell, Attaché to the Commission; Don Juan Espina, Assistant Commissioner of Fine Arts.

The Spanish Building, which is modeled after the Casa Lonja of Valencia, shows only parts of the original building, the column hall and the tower having been reduced in proportion to three-fourths of the original, which was erected before the date of the discovery of America. The structure has a frontage of 84 feet 6 inches. There are three floors, two of which are occupied by the Royal Commission. The space is distributed in three naves longitudinally and five naves transversely, corresponding to eight pillars in the center, with quarters and halves in the lateral walls and corners, forming in all fifteen vaults. The ornaments represent the church, magistracy, military and the arts; also the agricultural, commercial and industrial pursuits of the kingdom. The material is wood and staff.

The general exhibits made by Spain outrank anything that country did at the Centennial or the last two Paris Expositions. The wealthy men of Spain whose wine cellars are famous at home took so much interest in the exhibit as to send over 12,000 bottles of their choicest collections. This forms a portion of the wine display.

In the Fine Arts Palace are shown forty-six oil paintings and twenty-two sculptures from Barcelona, besides many architectural works and engravings. To round out the exhibit of manufactures, the displays made recently at a special exhibition at Barcelona were shipped here.

First-class exhibits are made in the Departments of Machinery and Electricity.

In the Transportation Exhibits Department the Marquis of Comillas, President of the Spanish Transatlantic Company, alone took all the space assigned to Spain and the many models of ancient and modern naval architecture are provided for.

The agricultural display comprises 6,605 square feet. Exhibits for this department come from Cuba, Puerto Rico, the Philippine islands, and the coast of Guinea. These provinces show samples of coffee, sugar, mineral waters, preserves, tobacco, manilla hemp, cocoa, chocolate, etc.

In the Department of Ethnology Spain occupies 10,000 feet. It has also the chapel of the Convent of La Rabida and space in the Woman's Building. Her Majesty, the Queen Regent, is the President of the Spanish Woman's Commission and personally superintends the work.

The Spanish pavilion in the Woman's Building contains 200 square feet and is located just in front of the south entrance. A recent communication from Spain shows the appreciation of the women of that country of the marked consideration shown them by the Board of Lady Managers. Spanish women instead of receiving the general circular letter sent to other countries were addressed by a personal letter from the President of the Woman's Board. In response to the cordial letter from Mrs. Palmer there was much enthusiasm in Spain, and a great many personal relics of Queen Isabella are therefore exhibited. In the collection is the sword of "Her Majesty," which is preserved in the Royal Armory at Madrid. This, together with a portrait of Isabella, and some jewels which belonged to her occupy the place of honor in the Spanish woman's exhibit. This exhibit is so complete that it gives a comprehensive idea of the culture and progress of Spanish women during the different periods of their history. A curious and interesting feature of the exhibit consists of a number of ingeniously contrived manikins, showing with historical accuracy the characteristic types and costumes of the different provinces of Spain. Many beautiful and strange articles of needlework made by the country women are in the collection. Cushions richly covered with gold and silver lace, a quantity of the beautiful variety of lace known as "Olonde," spinning wheels, curios made by the primitive machines in linen and worsted, and picturesque ornaments for the coiffure are shown. Donna Concepcion Arenal, who recently died, was in charge of the literary exhibit, as she was the recognized leader of all intellectual movements in her country, especially in the line of philanthropy and reform. The religious writings of St. Theresa, of Jesus, which rank with the first Spanish classics, a volume of Latin poems written by Donna Lucia Riega in the sixteenth century, the original manuscripts of a number of poems written by Queen Maria Amelia, the second wife of King Ferdinand VII, are also in the collection.

The Duke of Veragua sent to the State Department at Washington the most interesting historical documents in the world relating to the voyage and discoveries of Columbus, and these are exhibited in the Convent of La Rabida. The documents are appended herewith and form a history authentic in its character of the doings of the great navigator:

1. The commission of Columbus. The original commission given to Columbus by Ferdinand and Isabella upon his departure for the first voyage, dated Granada, April 30, 1492, appointing him Grand Admiral of the ocean seas, Vice-King and Governor-General of all the lands that he should discover.
2. Royal letters patent from the sovereigns of Spain granting licenses to the persons accompanying Columbus on his first voyage. Dated Granada, April 30, 1492.
3. Royal letters patent from the sovereign of Spain commanding the inhabitants of Palos to furnish Christopher Columbus with two caravels for his first voyage. Dated Granada, April 30, 1492.
4. Royal letters patent from the sovereigns of Spain commanding the inhabitants of Palos to furnish Christopher Columbus everything necessary to equip the caravels for his first voyage. Dated Granada, April 30, 1492.
5. Royal letters patent from the sovereigns of Spain exempting from taxes supplies needed for the fleet of Columbus on his first voyage. Dated April 30, 1492.

6. Royal letters patent from the sovereigns of Spain ordering that Christopher Columbus may take without charge anything needed for his first voyage. Dated May 15, 1492.
7. Royal letters patent from the sovereigns of Spain granting power to Christopher Columbus to seal and deliver stores of provisions in their names. Dated May 15, 1492.
8. Royal letters patent from the sovereigns of Spain commanding that Christopher Columbus be allowed to pass freely through ports, cities, towns and villages. Dated Barcelona, May 20, 1492.
9. Certificate of Roderigo Perez, notary public in the City of Isabella, Santo Domingo, Dec. 16, 1495, concerning the contract made by the sovereigns of Spain with Christopher Columbus in the Town of Santa Fé de la Vegas de Granada, April 17, 1492.
10. Royal letters patent from the sovereigns of Spain authorizing 300 persons to be taken by Columbus on his second voyage. Dated Burgos, April 23, 1493.
11. Royal letters patent from the sovereigns of Spain commanding Columbus to prepare a fleet for his second voyage. Dated May 23, 1493.
12. Royal letters patent from the sovereigns of Spain commanding captains and masters of vessels to recognize Admiral Christopher Columbus as Captain-General, and to obey him in every particular. Dated at Barcelona, May 28, 1493.
13. Royal letters patent from the sovereigns of Spain authorizing Christopher Columbus to appoint three persons for the offices of government in the lands he should discover. Dated Barcelona, May 28, 1493.
14. Instructions for his second voyage given to Columbus by Ferdinand and Isabella, May 29, 1493.
15. Original memoranda written by Christopher Columbus to the sovereigns of Spain concerning the money required for the compensation and subsistence for six months of the 300 people who were to accompany him on his second voyage.
16. Bull of Pope Alexander VI granting to the sovereigns of Spain all lands discovered by Christopher Columbus. Dated at Rome, May 4, 1493.
17. Letter from the sovereigns of Spain to Columbus assuring him of the peaceful intentions of the King of Portugal. Dated June 12, 1493.
18. Letter from Queen Isabella to Columbus recommending Juan Aguado to a good position in his fleet. Dated June 30, 1493.
19. Letter from the sovereigns of Spain to Christopher Columbus recommending the appointment of Sebastian de Olano as Collector in Indies. Dated Aug. 4, 1493.
20. Letter from the sovereigns to Christopher Columbus urging him to hasten his departure to the Indies, Aug. 18, 1493.
21. Letter from Queen Isabella to Columbus inclosing a copy of a book he had left with her, asking him to send her a certain sailing chart, and urging him not to delay his departure. Dated Sept. 5, 1493.
22. Letter from the sovereigns of Spain to Christopher Columbus asking his opinion in regard to a certain document which had been prepared in reply to the King of Portugal. Dated Barcelona, Sept. 5, 1493.
23. Letter from the sovereigns of Spain to Christopher Columbus concerning certain expeditions of the King of Portugal and informing him that the book which he left with them would be forwarded to him by Don Juan de Fonseca, June 1, 1493.
24. Royal letters patent from the sovereigns of Spain directing Christopher Columbus to return to the Indies. Dated Medina del Campo, June 22, 1493.
25. Decree of King Ferdinand and Queen Isabella granting to Columbus an annuity of 10,000 maravedis, to be paid from the tax upon the butcher-shops of Cordova during his lifetime. Dated at Valladolid, Nov. 18, 1493.
26. Books which contain certified copies of royal letters patent from the sovereigns of Spain granting to Christopher Columbus all the rights, titles, dignities, and regalias enjoyed by the Admirals of Castile. Copies of royal letters patent in towns established in Santo Domingo. Contracts of Columbus with the sovereigns of Spain.
27. Instructions from the sovereigns of Spain to Columbus concerning his second voyage, dated Barcelona, March 30th, and Sept. 15, 1493; Medina del Campo, April 19, 1494; and Segovia, Aug. 16, 1494.
28. Letter from the sovereigns of Spain to Christopher Columbus acknowledging with great gratification the receipt of letters by the hands of Antonio de Torres and requesting him to send Bernal Diaz de Pisa, accountant of the expedition, to Spain, dated Medina del Campo, April 13, 1494.
29. Letter from the sovereigns of Spain to Christopher Columbus, dated Segovia, August 15, 1494, asking certain information and informing him of an agreement with the Kingdom of Portugal.
30. Decree of King Ferdinand and Queen Isabella granting a coat of arms to Columbus. Dated June, 1494.
31. Letter from the sovereigns of Spain to Christopher Columbus congratulating him upon his return from his second voyage and requesting him to report to the court at once. Dated July 12, 1496.
32. Commission as Adelantado Mayor granted to Christopher Columbus by the sovereigns of Spain. Dated at Medina del Campo, July 22, 1497.
33. Letter from the sovereigns of Spain to Christopher Columbus about gold, pearls and other treasure obtained in the Indies. Dated March 30, 1497.

34. Will of Christopher Columbus conferring the right of succession upon his son, Diego. Dated Feb. 22, 1498.
35. Memorandum submitted by Christopher Columbus to the Council of the Indies concerning his arrest and imprisonment, and declaring his innocence of the charges made against him.
36. Letter from the sovereigns of Spain to Christopher Columbus containing instructions concerning his fourth voyage. Dated Valencia de la Torro, March 19, 1502.
37. Letter from Christopher Columbus to his Holiness the Pope of Rome. February, 1502.
38. Letters of Christopher Columbus to his son, Diego, dated Nov. 21, 1504; Nov. 28, 1504; Dec. 1504; Dec. 3, 1504; Dec. 13, 1504; Dec. 21, 1504; Dec. 29, 1504; Jan. 8, 1505; Feb. 25, 1505; Dec. 5, 1505. Memorial of Christopher Columbus to the sovereigns of Spain in behalf of his son Diëgo.
39. Letters from Christopher Columbus to the Rev. Father Don Gaspar Gorricio de las Cuevas, dated April 4, 1502; Sept. 4, 1505; July 7, 1503; Jan. 4, 1505.
40. Letter from King Ferdinand V to Diego Columbus, dated Naples, Nov. 26, 1506.
41. Commission as Adelantado Mayor of the Indies. Granted by the sovereigns of Spain to Diego Columbus. Dated Valladolid, June 16, 1515.
42. Authenticated copy of the will of Diego Hernandes, who accompanied Christopher Columbus on several voyages. Dated 1536. This will was important evidence to sustain the claims made by the family of Columbus upon the crown of Spain.
43. Commission as Admiral of the Indies. Granted to Don Luis, the grandson of Christopher Columbus. Dated May 24, 1537.
44. Letter from the King of Portugal to Christopher Columbus. Dated Avis, May 29, 1488.
45. Ordinances issued by sovereigns of Spain to Christopher Columbus and the Court of Santo Domingo for the clearance of certain materials, 1497.

All of these documents are either written by Columbus himself or signed by Ferdinand and Isabella.

The Queen Regent of Spain will be represented at the Exposition by the Infanta Eulalia and her husband, Prince Antoine. The Spanish Cabinet has sanctioned their visit as representatives of the Queen Regent Christina. The Infanta Eulalia was born February 12, 1864 and is therefore 29 years of age. She was married to Prince Antoine, son of Prince Antoine d'Orleans, Duke of Montpensier, February 28, 1886. The Infanta Eulalia is the youngest sister of King Alfonso.

ST. THOMAS.

Dr. Charles E. Taylor, Commissioner.

The exhibit made by the Island of St. Thomas is a most complete relief map of the island. It is shown in the Department of Transportation Exhibits.

SWEDEN.

Mr. Artur Leffler, Royal Commissioner; Mr. Axel Welin, Secretary; Mr. Tom Bergendal, Special Commissioner for Manufactures; Mr. Carl Dellwik, Superintendent Swedish Section Machinery Hall; Mr. Robert Lindblom, Resident Commissioner; Baron Nils Posse, Special Commissioner for Tourist Department; Mr. Victor E. Rhodin, Official Commercial Representative; Mr. Gust. Wickman, Architect; Mr. Anders L. Zorn, Special Commissioner of Fine Arts; Mr. Erik Lundquist, Assistant Private Secretary.

The Swedish Building, which is located to the northeast of the Fisheries and between the lagoon and the lake, is one of the handsomest of all the foreign buildings. The space allotted Sweden was triangular in shape, and the building was made to conform to the space in order to utilize it to the utmost. A hexagon was inscribed at the center of the space, and there the main hall was located. In the three corners are rooms of considerable size. Galleries run around the building. The main hall is sixty-five feet across, and the pitch of the cupola, which rises above it, is seventy feet, and above the cupola is the spire. The Swedish flag is unfurled from the flagstaff above the spire 150 feet from the ground. The entire area of the floor is 11,000 square feet. The building was constructed in Sweden, where it was temporarily put together. Afterward it was taken apart and brought to Chicago. It cost \$40,000. The design of the building is partly the product of the architect's personal taste and fancy, but in working out the drawings he has to a great extent allowed himself to be guided by the style of Swedish churches and gentlemen's houses of the sixteenth and seventeenth centuries. As far as possible the characteristics of old Swedish



MERCHANT TAILORS' BUILDING.



BUILDING OF SWEDEN.

architecture have been retained. The lower part of the front wall of the building forms an exhibit of its own, consisting of modern brick, terra-cotta, and cement work from the most prominent manufacturers of Sweden. The remainder of the building is entirely of wood, all the work being done by the Eskelstuna Iräförädlingsaktiebolag in Sweden. Following the old Swedish fashion, the whole of the roof and the walls are covered with shingles. The outside of the woodwork is impregnated with a preserving liquid to prevent decay. The inside of the pavilion is painted in light colors and richly decorated with bunting, coats of arms and crests. A fine exhibit of the world-famed Swedish iron ore is made. A display of the manufactured products of iron, china goods and glass products are well represented in the pavilion. There is also a display of gold and silverware and wood pulp products. A further attraction is the excellent representation of a genuine Swedish home with beautiful suites of furniture and highly artistic drapery. Exactly opposite the main entrance of the building is a large picture of the capital of Sweden, "the Venice of the North," with its famous royal castle. Wax figures stand in front of this picture dressed in the picturesque garb of the Swedes, and to one side is a panorama of Swedish landscape, while the other side is occupied by a Swedish peasant's cottage. In the outdoor sports exhibit are skates, snow shoes, sleighs, canoes and yachts. A carefully executed bust of Gustavus Adolphus II has also been placed in this room. In the galleries are gathered exhibits illustrative of the school system, which are admittedly of the first rank. Embroideries and needle work displays attract lady visitors, who will also be pleased with the Swedish women's work in the Woman's Building under the patronage of her Majesty the Queen of Sweden and Norway. The office of the Chief Swedish commissioner, Mr. Arthur Leffler, is at the north end of the Swedish Building. Exhibits from the Scandinavian peninsula will also be found in the Agricultural and Machinery Halls and in the Fine Arts Gallery.

In the Department of Mines and Mining are exhibited specimens of iron ore, rock and fossil sections polished for microscopes, granite slabs, urns, columns and pedestals, marble, feldspar, cement, limestone, pig iron, furnace slag, shot, wire, steel, bar iron, maps, models and illustrations of mines and geological sections in Sweden.

Matches, organic and mineral acids, druggists' wares and supplies, ink, samples of ruling, type-setting and hand-printing, paper, books, picture frames, parquet floors, furniture, textile fabrics, porcelain, earthenware, brick and tiles, granite monuments and ornaments, brass and bronze ornaments, lamps, glassware, wood-carving, watches and jewelry, blankets and carpets, fur garments, linens, sewing machines, skins, laces and embroideries, artificial flowers, knitted goods, dolls, fancy articles of wood and leather, arms and ammunition, stoves, wire goods, iron, tools, sledges, cutlery, saws, anvils, builders' hardware, flags, etc., are shown in the Department of Manufactures.

SWITZERLAND.

Mr. James Perrenoud, Executive Commissioner; Mr. Arnold Holinger, Commissioner.

In the Manufactures Building the display of Switzerland is one of the most attractive. This exhibit is placed at the south end and is reached through an arch over which is the Swiss cross in bright red. All around the three sides of the square are pictures of the Swiss Alps. The pictures are done in colored crayons, are realistically beautiful and can hardly be told from oil paintings. They represent scenes well known to travelers. In the foreground of many of the scenes are shown pastoral scenes of the table-lands. The pavilions contain all of that rare handiwork for which the people are famous, and in one corner is shown a family of Swiss watch-makers, where every one down to the baby is at work. The baby's share of the work is done with its rattle. The delicate little wheels are put in the rattle with emery dust, and while the baby amuses itself by pounding the toy it polishes the wheels.

TRINIDAD.

Mr. Harry Vincent, Executive Commissioner.

The Island of Trinidad makes a collective exhibit in the Department of Agriculture. It is made up of agricultural products of the island, dye-woods, etc.

In the Department of Mines and Mining Trinidad makes a fine display of asphalt. Many tropical plants, such as palms, croton, etc., are shown in Horticultural Hall, and sugar, molasses, rum and cocoa are displayed in the Department of Agriculture. Cocoa is dispensed in cups at a mere nominal price to cover the cost of handling.

TURKEY.

Ibrahim Hakky Bey, Imperial Commissioner General; Ahmed Fahri Bey, Imperial Commissioner; Mr. Hohannes J. Pushman, Secretary; Mr. Z. J. Sweeney, Honorary Commissioner; Mr. F. D. Thompson, Honorary Commissioner; Capt. Mehmed Tevfik, Attache to Commission; Capt. Ahmed Sabit, Attache to Commission.

Turkey's principal exhibit is made in the Turkish building, which adjoins that of Brazil on the east and lies between the Fine Arts and Fisheries buildings. In this structure a miniature exhibit is made of the resources of the Ottoman Empire, consisting of twelve sections, in which are shown textile fabrics, gold, silver and other minerals, munitions of war, electrical appliances, antiquities, all the natural agricultural products, silks, dye-stuffs, and, in brief, small samples of nearly every industry of the country. Exhibits are also made in the Department of Manufactures, consisting principally of oriental rugs and filigree jewelry; in the Department of Transportation Exhibits, in which caiques, sedan chairs, bullock carts, etc., are shown, and in the Woman's Department, where embroideries made by the women of Turkey, are an interesting feature.

The Turkish Building is in the Moresque style and is in imitation of the Hunkhar Casque (or fountain) of Sultan Ahmed III, which is opposite the Babi Humayon in Constantinople, and which corresponds with the capitol at Washington, the seat of government. The structure is eighty by one hundred feet in dimensions and is surmounted in the center by a dome. There are also smaller domes at each of the four corners. The exterior is covered in Damascian carved wood, made specially in Damascus and brought here for the purpose. The interior is a large exhibition hall, decorated with tapestries. There are small exhibition rooms in each of the four corners, and the office of the commissioner is in a separate building to the rear of the main building.

URUGUAY.

Senor Don Prudencio de Murguiondo, President; Don L. Rodriguez Diez, Special Commissioner; Don Alberto Gomez Ruano, Commissioner; Dr. Don Eduardo Chucarro, Commissioner; Don Ricardo Hughes, Commissioner.

The government of Uruguay appropriated \$24,000 for Exposition purposes, which, considering its financial condition, was remarkably liberal. A fine exhibit of wines, agricultural products, and articles of manufacture was gathered together. Space was secured in the Agricultural Building and a fine exhibit of the products of that country is made.

VENEZUELA.

Dr. Francisco E. Bustamante, E. E. and M. P., President *ad honorem*; Dr. David Lobo, Secretary of Legation; Dr. Manuel Vicente Toledo, Commissioner; Mr. J. M. Larralde, Commissioner; Mr. Jacinto Lopez, Commissioner; Dr. H. Rivero Saldivia, Consul General, Counselor; Mr. J. A. Sanchez, Commissioner *ad honorem*; Mr. A. S. Baker, Commissioner *ad honorem*; Mr. Manuel Cadenas, Commissioner *ad honorem*; Dr. A. Ernst, In charge of relics, etc., Foreign Affairs Department.

The building of the Republic of Venezuela occupies a space of 284 square meters, and is divided in three parts. The central part is square, 36x36 feet and the two wings on each side are 21x30 feet, which makes an entire frontage of 78 feet. It is crowned by a dome in iron and glass, 30 feet in diameter and 12 feet high which makes the building 45 feet high. The two side parts are also crowned by a dome with four sides. On the left tower a statue in bronze of Columbus has



BUILDING OF TURKEY.



BUILDING OF VENEZUELA.

been placed, and on the right, one of Bolivar. Both these statues are nine feet high, and weigh 2,000 pounds each. The interior of the building is richly decorated with drapings and vellum, and contains show cases, reception and toilet rooms, etc. The architecture is in the style of a Græco-Roman temple, finished in imitation marble. There are six entrances, three in the front and three in the rear. The principal side faces the main entrances to the Fisheries Building, surrounded by a pretty garden with tropical plants imported for the occasion. Exhibits from Venezuela may be seen in the departments of Agriculture, Horticulture, Mines, Manufactures, Liberal Arts, and Fine Arts, consisting of leather exhibits, relics of scientific treatises of medicines, and mementoes of home glories, such as the sword of Bolivar, flag of Pizarro, etc.



U.S. Government Building

Engraved by J. H. Foster & Co. N.Y.

UNITED STATES GOVERNMENT EXHIBIT.

Board of Management and Control of the United States Government Exhibit: Mr. Edwin Willits, Chairman; W. E. Curtis, Department of State; Allured B. Nettleton, Treasury Department; Major Clifton Comly, U. S. A., War Department, Captain R. W. Meade, U. S. N., Navy Department; A. D. Hazen, Post Office Department; Horace A. Taylor, Department of the Interior; Elijah C. Foster, Department of Justice; Edwin Willits, Department of Agriculture; Professor G. Brown Goode, Smithsonian Institution and the National Museum; Tanleton H. Bean, United States Fish Commission.

In accordance with the Act of Congress, approved April 25, 1890, the Executive Departments of the United States Government make an interesting and creditable display, under the auspices of a Board of Management and Control, composed of governmental officials appointed from the several departments. A magnificent building has been erected for these collective exhibits. It is located near the lake, south of the main lagoon and of the area reserved for the foreign nations and the several States, and east of the Woman's Building and of Midway Plaisance. It is classic in style, and bears a strong resemblance to the National Museum and other government buildings at Washington. It covers an area of 350x420 feet, is constructed of iron, brick and glass, and cost \$450,000. Its leading architectural feature is a central octagonal dome 120 feet in diameter and 150 feet high. The building fronts to the west, and connects on the north by a bridge over the lagoon, with the building of the Fisheries exhibit.

The south half of the Government Building is devoted to the exhibits of the Postoffice department, Treasury department, War department, and Department of Agriculture. The north half is devoted to the exhibits of the Fisheries Commission, Smithsonian Institution, and Interior department. The State department exhibit extends from the rotunda to the east end, and that of the Department of Justice from the rotunda to the west end of the building. The allotment of space for the several department exhibits is; War Department, 23,000 square feet; Treasury, 10,500 square feet; Agriculture, 23,250 square feet; Interior, 24,000 square feet; Postoffice, 9,000 square feet; Fishery, 20,000 square feet, and Smithsonian Institution, balance of space. The departmental exhibits are as follows:

Treasury Department.—This department contributes elaborate exhibits, illustrative of the functions of:

- The Coast and Geodetic Survey.
- The Office of Weights and Measures.
- The Bureau of Internal Revenue.
- The Bureau of Engraving and Printing.
- The Bureau of Statistics.
- The Light-House Board.
- The Life Saving Service.
- The Mint.
- The Marine Hospital Service.
- The Office of the Register of the Treasury.
- The Supervising Architects' Office.

Of the so-called scientific bureaus now maintained by the government, the coast-survey is the oldest. Organized as it was in the early part of the present century, its growth has been in a measure parallel with that of the country, and aside from the actual value of the results of its operations from a practical standpoint, it is admitted by all to have exercised a powerful influence in virtue of its experience, and the high character of its performances, upon the wonderful scientific development which has taken place in the New World.

The office of Weights and Measures exhibits sets of the customary and metric weights and measures; balances of precision; copies of the international prototypes of the meter and kilogram; comparators; 100-foot bench standard.

The Bureau of Internal Revenue exhibits historical and current collections of all stamps and brands used in the service; gauging instruments and hydrometers; instruments used in test-

ing for oleomargarine; a chemical laboratory to illustrate methods of testing for foreign fats used in oleomargarine and lard compounds; polariscopes, balances, and other instruments used in determining sugar bounties; set of Dutch standards.

The Bureau of Engraving and Printing exhibits specimens of engraved portraits and vignettes; of all bonds and other securities issued by the United States; of all notes and certificates, from the blank sheet to the finished product; illustrations of the improvement in bank note engraving from the earliest effort to date.

The Bureau of Statistics has prepared charts illustrative of the national progress in population, wealth and material products.

The Mint displays presses in operation striking off medals of white metal or copper bronze, and a collection of coins and medals.

The Marine Hospital Service displays a model hospital ward with all its appliances; dispensary outfit; model operating rooms; illustrations of modern methods of hospital construction, lighting, heating and ventilation; model and photographs of quarantine stations; illustrations of typical quarantine plant, consisting of wharf for discharge of ballast, fumigation wharf, disinfecting chambers and sulphur furnace, detention barracks, lazaretto, hospital for noncontagious diseases, boatmen's and attendants' quarters and surgeon's residence; steam disinfecting car used in interstate quarantine, apparatus used in house-to-house disinfection; model of camp probation; set of sanitary reports received from councils in all parts of the world; reports showing the relations of the bureau to all the States of the Union; sanitary publications of the bureau and of the different States; illustrations of the laboratory work of the bureau in its efforts to discover the origin of and remedies for disease; microscopes and slides showing all known disease germs; illustration of methods of test for color-blindness and of recruits for the Revenue Marine Service as well as the work of the bureau in connection with the Immigration Bureau.

The Register of the Treasury displays all classes of certificates, bonds, notes, fractional currency, coupons and other evidences of indebtedness covering a period from the year of the Declaration of Independence to the last bond or note issued by the United States Treasury; all of which, except the notes and the fractional currency, are found in the files of the Register's Office, canceled, but in fair condition; Confederate bonds, notes, and fractional currency also from the files of the Treasury Department; Continental and Colonial currency; charts showing public debt and interest from the foundation of the United States Government to the present time; public debt warrants and drafts, two in number, aggregating over \$281,000,000 (the largest ever issued); civil appropriation warrants with autographs of all the Secretaries of the Treasury from Hamilton to Carlisle, inclusive; pay warrants and drafts, issued on account of salary, with autographs of the President of the United States from 1822 to the present time (all prior to 1822 having been destroyed by fire in 1833) and a variety of autographic papers of historical characters.

The Supervising Architects' office makes an elaborate display of drawings and photographs of public buildings, planned and constructed under its supervision.

War Department.—This department displays:

From its Bureau of Engineers, the published maps and reports of the bureau; models of the bridge equipage, accompanied by a full size section of the bridge; torpedo cases, connections, batteries, etc. (such as are not considered secret); models of forts and of river and harbor improvements; photographic enlargements of light-houses, forts, and river and harbor improvements.

From its Ordnance Department, machines, in operation, for the manufacture of metallic ammunition; machines in operation showing improved features connected with the fabrication of the Springfield rifle; a historical collection of small arms, with an illustration of the present modes of fabrication; samples of service projectiles, showing method of construction of equipments and accoutrements for the various arms of the service; field guns; siege guns; mortars; howitzers, with carriage complete; an 8-inch, a 10-inch and a 12-inch seacoast steel rifle, and a 12-inch seacoast steel mortar, mounted upon depressing carriages; all kinds of rapid fire and machine guns used in the army; machines for determining ballistic properties of guns and powders; illustration of the method of taking ranges, etc.; illustrations of the devices which have been employed in the forts to fire high explosives from guns; one pneumatic dynamite gun; testing machines to determine the properties of metals; illustrations of the different phases in the construction of a built-up gun.

From the Quartermaster's Department, lay figures, mounted and dismounted, in the uniform of all grades of the service, the same illustrating the clothing and equipment issued from the Quartermaster's Department; complete sets of national colors, standards and guidons; specimens of all kinds of standard supplies issued by the department; illustration of the means of transportation; model of national cemetery, a military post, and of a quartermaster's depot.

From the Medical Service, a complete set of hospital and medical supplies, with such other articles as are furnished for scouting expeditions; surgical instruments and apparatus; record books used in the Medical Department of the United States and other armies; illustration of the means of transport of the sick and wounded; models, photographs and plans of military hospitals; apparatus for physical and anthropometrical measurements; illustrations of the microscopical work which is being done in the Army Medical Museum; a special exhibit of anatomical preparations, normal and pathological; a selected series of crania and of craniometrical instruments; photographs of specimens of pathological anatomy; a set of publications of the Surgeon-General's Office.

From the Signal Corps, a historical exhibit illustrating the more important achievements of the corps, and indicating lines of progress followed and advances made. The semi-permanent

flying telegraphic lines, with the methods of operation; the field telephone kit; a signal station with its equipment in operation; a captive balloon train; an artistic centerpiece illustrative of the fact that our flag has been carried further north than that of any other country.

Smithsonian Institution and National Museum.—This institution contributes:

From the Smithsonian Institution, illustrations of its growth, aims, and the scope of its work during the forty-seven years of its existence; illustrations of the history of American science and exploration; of the activities of the numerous scientific institutions and societies of this country; of the explorations by our own and foreign governments, and of individuals; portraits of representative scientists associated with American scientific development.

From the National Museum, objects illustrative of the natural resources of this country and their utilization, so far as the subject is not covered by other branches of the government or by individual exhibitors; groups of larger quadrupeds now becoming extinct; groups of mammals of the United States, illustrating peculiar habits and environment; group illustrative of the life and history of the fur seal; each species and subspecies of bird found in this country, illustrative of geographical variation, the confusion of popular names, the peculiar habits; casts of reptiles and batrachians; dislocated skeletons and parts showing families and sub-families of vertebrates; models and specimens of unfamiliar lower forms; of animal life; fossil animals for comparison with later forms; methods and implements of the chase primitive and modern; illustrations of the assistance rendered to man by various animals; useful products of the animal kingdom and methods of preparation; models illustrative of the phenomena of volcanoes, earthquakes and glaciers, and of the constructive and destructive effects of water; a collection of ornamental minerals with a complete series of crude and polished gems; an anthropological display, showing racial characteristics, and progress in the arts of civilization; illustrations of pre-historic races, with implements of stone, bronze and iron, showing early stages of industrial development; illustration of distribution of primitive races; the whole illustrative of modern museum methods of work.

From the Bureau of Ethnology, illustrations of the life and habits of North American Indians, differentiating the principal linguistic stocks, showing marked characteristics; photographs and transparencies showing actual surroundings, supplemented by collections of their manufactured wares.

In general the museum makes displays of certain selected arts illustrative of development and of museum methods of treatment, such as transportation, the construction of dwellings, the utilization of wind, river currents, steam and electricity.

Department of Justice.—This department's exhibit consists largely of such historical documents and articles of interest as are culled from the files, records, and possessions of the courts of the United States. Justice, as a governmental function, does not readily materialize in "articles" adapted to Exposition purposes, yet the governmental display would be incomplete without an "appearance" at least from this among the displays of the other executive departments. The exhibits, though comparatively small in number and occupying a relatively small space, are of great interest to lawyers, and under the head of installation are displayed portraits of the eminent jurists who have filled the chair of attorney-general.

Naval Exhibit. This exhibit is made outside the United States Government Building. A structure, which, to all outward appearance is a full-sized modern battle-ship, has been erected on piling on the lake front in the northeast portion of the grounds. It is surrounded by water and has the appearance of being moored to a wharf. The structure has all the fittings that belong to the actual ship, such as guns, turrets, torpedo tubes, torpedo nets and booms, with boats, anchors, chain cables, davits, awnings, deck fittings, etc., together with all appliances for working the same. Officers, seamen, mechanics and marines are detailed by the Navy Department during the Exposition, and the discipline and mode of life on our naval vessels are completely shown. The detail of men is not, however, as great as the complement of the actual ship. The crew gives certain drills, especially boat, torpedo, and gun drills, as in a vessel of war.

The dimensions of the structure are those of the actual battleship, to-wit: length, 348 feet; width amidships, 69 feet 3 inches; and from the water line to the top of the main deck, 12 feet. Centrally placed on this deck is a superstructure 8 feet high with a hammock berthing on the same 7 feet high, and above these are the bridge, chart-house, and the boats.

At the forward end of the superstructure there is a cone-shaped tower, called the "military mast," near the top of which are placed two circular "tops" as receptacles for sharpshooters. Rapid-firing guns are mounted in each of these tops. The height from the water line to the summit of this military mast is 76 feet, and above is placed a flagstaff for signaling.

The battery mounted comprises four 13-inch breech-loading rifle cannon; eight 8-inch breech-loading rifle cannon; four 6-inch breech-loading rifle cannon; twenty 6-pound rapid-firing guns; six 1-pound rapid-firing guns; two Gatling guns, and six torpedo tubes or torpedo guns. All of these are placed and mounted respectively as in the genuine battleship.

On the starboard side of the ship is shown the torpedo protection net, stretching the entire length of the vessel. Steam launches and cutters ride at the booms, and all the outward appearance of a real ship of war is imitated.

The superstructure shows the cabins, staterooms, lavatories, latrines, messrooms, galley, and fittings, mess-table for crew, lockers, berthings, etc.; also the manner in which officers and enlisted men live, according to the rules of the Navy. On the superstructure deck and bridge is shown the manner in which the rapid-firing guns, search lights, boats, etc., are handled. The

entrance to the conning tower is from the deck, in which are all appurtenances that the captain has at his disposal when taking the ship into battle and during the progress of a fight at sea.

An electric light plant is installed and provision made for heating with steam. On the berth deck are shown the various fittings pertaining to the hull, machinery and ordnance; ordnance implements, including electrical devices, gun-carriage motors and range finders; models showing typical ships of the past and present; samples of the provisions, clothing, stores and supplies, bunting, flags, etc.; in short, the thousand and one things that go to make up the outfit of a man-of-war.

The traditional costumes of the sailors of the Navy from 1775 to 1848 are shown by men dressed in those costumes.

Postoffice Department.—As in all previous Expositions in which it has taken part, the Postoffice Department has established in its space a working postoffice, so arranged that it will at the same time serve all the purposes of a postoffice for the Exposition, and afford an opportunity to visitors to study the interior workings of a model city postoffice. In addition to this a display is made of all articles of postal equipment, postage stamps, stamped envelopes, etc., to which is added a collection of curious articles of mail matter which have accumulated in the Dead Letter Office. A new feature of the display are articles which have been sent during the past three years, in compliance with an invitation from the postmaster-general, by postmasters, and others, consisting of relics, curiosities, etc., pertaining to the postal service. Another feature of the departmental exhibits are articles contributed or loaned by foreign postal administrations, illustrating the postal service in the respective countries from which they are received.

From the postoffice twenty-five carriers deliver letters, and there is a force of twenty-five clerks to handle the business. This does not include the railway postoffice clerks who throw letters and papers in the mail car that stands just north of the postoffice. One hundred and fifty letter boxes have been placed around the grounds and in the Plaisance, each State and government building having a box. The postoffice is a branch of the Chicago postoffice. It shows the workings of a postoffice of the first-class, including the operations of the inquiry, stamp, money order, registry, general and carriers' delivery departments. The mailing division, where outgoing mail is handled, occupies the north half of the space, and the city division for incoming mail the south part. In the gallery are the offices for Gen. Hazen, third assistant postmaster-general, and Superintendent Hastings. The outgoing mail collected by the carriers is brought through doors on the west side of the office and dumped onto the pickup table in the north end of the mailing division. Six stamping machines grouped around cancel the stamps, and the letters are put through a rough separation by States in a case that stands south of the pickup table. Six clerks working before three double distributing cases south of the State case make up the mails for routes and pouch it for the railway mail cars. The opening table on which the incoming mail is back-stamped stands beneath the gallery. Carriers take it from this table to the tenant double cases where the mail is made up into routes for delivery through the different buildings. The furniture is so arranged that spectators looking through the glass screen can easily see every phase of postoffice work. The screen is a handsome piece of cabinet work. It is made of quartered oak paneled in deep squares. The grill work is of bronze, and the glass is of fine beveled plate. A series of etched designs on the glass depicts the evolution of the mail service. An old-fashioned six-horse mail coach and a post boy represent the early days of the service. Well-executed pictures of an ocean greyhound, a modern railway mail car, a sound steamer, a mail wagon and a mail carrier with his pouch bulging with letters portray the mail-handling facilities of to-day. The railway mail car "Benjamin Harrison" stands just north of the postoffice on a platform in the mailing division. The east side of the car contains plate glass permitting the interior to be seen. It is manned with a full crew of railway mail clerks, who show how letters and papers are handled at the rate of sixty miles an hour. It is a beautiful specimen of car-building, seventy feet long and equipped with the very latest appliances.

The Postoffice Department is one of the most popular branches of the government. It extends its operations through the length and breadth of the land, and ministers to the business and social concerns of every citizen. The number of postoffices now in operation is more than 68,000; the length of the post routes is about 452,000 miles, and nearly 375,000,000 miles of mail service are now performed annually. The space occupied by the Postoffice Department comprises an area of 15,082 square feet, of which 12,223 feet are on the ground floor, and 2,860 feet in the gallery just overhead.

Among the other exhibits of this department are:

Model of a postal car on scale of ten feet, completely furnished.

Model, twelve feet in length, of United States ocean mail steamship "Paris."

Model, seven feet in length, of ocean mail steamship "Columbia," representing the first mail steamship built in the United States.

Model, three feet in length, of mail steamboat in use in carrying the mail on the Oklawaha river, Florida.

Full size Concord mail coach, new.

Old Concord coach in early and present use in carrying the mails in Montana. This coach was once captured by Indians and regained by General Howard. Among its passengers have been two presidents of the United States, a secretary of war, and General William T. Sherman, on tours of inspection.

Wagons for delivery and collection of mail matter in cities.

Uniformed model of postrider mounted on horseback.

Snow-sledge (drawn by three dogs), carrying United States mail, with model of Indian runner on snow-shoes. The dogs, whose skins are used in this display, were recently in actual service.

Model of special delivery messenger in uniform, mounted on bicycle in motion.

Uniformed model of letter-carrier.

Uniformed model of railway mail clerk.

Framed collection of United States mail bags in present and former use.

Framed collection of United States mail locks and keys in former and present use.

Twenty-six mounted post-route maps, showing extent and character of mail transportation, frequency of trips, etc., throughout the United States and Territories.

Map of the world showing lines of ocean mail service between the United States and foreign countries.

Street letter boxes for the deposit and collection of mail matter.

Canceling machines in use in large postoffices for post-marking mail matter and canceling stamps in same. In motion by means of electricity.

Framed collection of post-marking and canceling stamps in general use in postoffices.

Colored models illustrating the growth of the various branches of the postal service of the United States.

Statistical charts showing the growth and development of the various branches of the postal service.

Statistical chart showing magnitude of the postal service of the United States as compared to that of leading foreign countries.

Framed sample of supplies in use in the postal service of the United States.

Six large cases of articles taken from the museum of the Dead Letter Office at Washington. This collection comprises about one thousand articles of unique and curious character, found in the mails and undeliverable to the senders or addressees. The Dead Letter Office exhibits have always been a source of great interest to visitos to the National capital.

Framed collection of all the adhesive postage stamps issued by the Postoffice Department since 1847 when the stamps were first introduced in the United States. The display is enclosed in a handsome and elaborate frame eleven feet in length by nine feet in height. The stamps are beautifully and artistically arranged, presenting a fine display of engraving and coloring—sufficient numbers of each kind and denomination having been used to produce the best effects.

Collection in five frames of the stamped envelopes issued by the department since 1853, the date of first issue.

Framed collection of specimens of all the postal cards of the United States issued from 1874 (date of first issue) to 1893.

Framed collection of portraits of postmasters-general and assistant postmasters-general of former times.

Framed collection of veterans of the postal service. This collection embraces nearly eighty persons now engaged in various positions throughout the country, and whose terms of service range from thirty-five to sixty-five years.

Large collection of framed photographs of postoffices in the United States.

Framed collection of pictures of natural scenery on the railway mail lines of the United States.

A special feature is an exhibit made under the direction of the Postoffice Department by the American Philatelic Association of specimens of the postage stamps, stamped envelopes and postal cards of all nations. The collection is an unusually complete one, and embraces some 50,000 stamps representing the most rare and costly articles of the kind known to the stamp-collecting fraternity. The stamps are tastefully mounted on sheets and inclosed within handsome showcases specially provided for the purpose. The display is located in the gallery overlooking the general postal exhibits, and it occupies about 1,600 square feet of floor space.

The postal exhibits of this country are supplemented by a display of somewhat corresponding articles contributed for the purpose by a large number of foreign postal administrations in response to an invitation extended by the Postoffice Department of the United States to participate in the display. Among the principal countries contributing more or less full lines of articles of postal nature are Great Britain, and dependencies (embracing Canada, India, New Zealand, Newfoundland, South Australia, Straits Settlements, Tasmania, Victoria, Bahamas, British Honduras, Windward Islands, Western Africa, Fiji Islands, Cape Colony, British Guinea, and British West Indies); Germany, France, Austria, Denmark, Belgium, Sweden, Portugal, Mexico, Switzerland, Japan, Egypt, Java, Tunis, Nicaragua, San Salvador, Hawaii and Liberia. In addition to the foregoing, many countries have sent merely collections of their postage stamps, stamped envelopes and postal cards. The foreign display is grouped separately from that of the United States.

Aside from the attraction which the display of postal articles of foreign countries may prove to visitors, it will afford the opportunity for examining and contrasting the methods employed by different postal administrations, and thereby serve to confirm the value of existing conditions, or to suggest improvements that will greatly benefit not only this country but the world at large.

On the whole, the display of the Postoffice Department is an exceedingly interesting one, and represents by far the most extensive and valuable collection of postal articles ever gathered together.

Department of Agriculture. The general work of preparing a suitable exhibit illustrative of the functions of this department was under the charge of the assistant secretary. The extent and variety of the contributions of this department are as follows:

From the Museum: Specially prepared displays of selected cereals, tobacco, and animal and vegetable fibres, illustrating distribution, the effects of transplantation, of changes of soil, climate, and altitude, and illustrative as well of departmental methods of study and treatment.

From the Bureau of Animal Industry: Illustrations of the parasites of animals; of the work of quarantine stations; of the processes of meat inspection; of transportation of live animals and meat; tagging; the handling of live stock; horseshoeing, and the diseases incident to defective shoeing; the work of the department in connection with animal diseases, and disease germs from the bacteriological laboratory.

From the Weather Bureau: A complete set of meteorological instruments in operation. The entire work of forecasting, from the receipt of telegrams to the publication and distribution of weather maps, will be carried on upon the grounds, in the presence of any one who may care to study the methods of the bureau, and the various processes will be explained, with a view to the popularization of meteorological knowledge.

From the Division of Entomology: Collections and models of insects injurious and beneficial to agriculture, enlarged illustrations of their operations, and implements and materials of suppression and culture.

From the Division of Ornithology and Mammalogy: A large model of the Death Valley region, where altitudes varying from several hundred feet below to 15,000 feet above sea level are in such close proximity as to disclose at a glance all the life zones of the country, animal specimens and groups characteristic of these life zones; birds and mammals beneficial or harmful to the farmer.

From the Botanical and Horticultural Divisions: Collections, growing and preserved, of medicinal, forage, and other economic plants, with cases illustrating herbarium methods of work and treatment.

From the Division of Forestry: A classified collection of sections of forest trees of the United States, with demonstrations of their economic uses; apparatus for testing the strength and other qualities of timber; illustrations of methods shown by experience to be best adapted to forest culture; metal railway ties advocated as a substitute for timber, and whose adoption would serve powerfully to protect our remaining forests from destruction.

From the Division of Chemistry: A complete agricultural laboratory, in which demonstrations of food adulteration, the saccharine value of sugar plants, and analyses of soils will be carried on; samples of adulterated foods which have been tested by the department.

From the Division of Statistics: Charts and maps illustrating the values of agricultural products, the range of prices, and the distribution of staple products; blanks and materials illustrative of the statistical methods of the department.

From the Division of Microscopy: A collection of models of fungi, edible and poisonous; models of fungi which attack forest and other trees; articles, instruments, methods, and results of investigations of adulterations of butter and other commercial fat.

From the Division of Vegetable Pathology: Models and drawings illustrative of fungous diseases of fruits and fruit trees; remedial agents, implements, and methods of protection, cure and eradication.

From the Division of Pomology: Models of American fruits, illustrating differentiation due to transplantation; classified exhibit of edible nuts; illustrations of methods of planting and cultivating small fruits.

From the Office of Experiment Stations: Illustrations of its methods of editorial work, and of summarizing the reports of stations.

From the Division of Records and Editing: A complete set of the publications of the department arranged for consultation, and a "bureau of information."

From the Division of Illustrations: The original plates and figures used in the reports and bulletins of the department, illustrating the care and skill demanded in the preparation of these publications.

Department of State.—To illustrate the functions of the Department of State effectively it is considered in two aspects: First, it is the medium through which our governmental affairs with foreign powers are conducted, and is also entrusted with various domestic affairs. Second, it is the repository of the historical archives of the nation, and may be considered the bureau of American history.

Taking up the first of these divisions, the workings of each bureau of the department are shown by means of blanks, sample letters, circulars, etc. The first of these displays shows how the Diplomatic Bureau, through which the correspondence with our embassies or legations, and the embassies or legations of foreign powers in the United States, transacts its business.

The second display shows how the Consular Bureau, the medium of correspondence between the home government and the consular corps of the United States, is conducted.

The third display shows the workings of the Bureau of Statistics, which edits and issues the reports from our consuls abroad, relating to the trade of their respective districts, and the avenues open for the introduction of American merchandise or raw products.

The fourth display illustrates the workings of the Bureau of Accounts, the intermediary through which the financial affairs of the department are conducted and the agency through which the law books of the United States are sold.

The fifth display illustrates how the correspondence of the department is indexed and how the records and archives are preserved, these being the functions of the Bureau of Indexes and Archives.

The sixth display relates to the Bureau of Rolls and Library, in which are deposited the historical records, where the laws of the United States are prepared for the printer, and where the original laws are finally deposited, and where the books and periodicals constituting the department library are kept. This bureau also distributes the department publications except consular reports.

The seventh display illustrates the workings of the Bureau of Commissions and Pardons, where the commissions of the executive officers of the government who constitute the President's cabinet are made out, and where Presidential pardons to criminals convicted before the courts of the United States are written and recorded. In this bureau the seal of the United States is deposited and the method of affixing it to public instruments is illustrated.

The eighth display is of the Passport Bureau, and shows how passports are issued to Americans travelling abroad. The seal of the Department of State is in this bureau and an impression of it is shown here.

The ninth display shows the workings of the mail division and how communications to embassies, legations and consulates are sent.

These exhibits are followed by a shelf of books, containing sample volumes of every class of publication issued by the Department of State both in the past and at the present day.

The second division of the Department of State treats of the history of the United States and illustrates the part which the department has played in it, and what papers are deposited there relating to the time before the department was in existence.

Beginning with the Declaration of Independence, the original of which is in the custody of the secretary of state, an exact photographic reproduction is shown. Underneath it is the draft of the instrument in Jefferson's penmanship, and to accompany it are relics of Jefferson, and his portrait after the original by Wilson Peale. Surrounding the declaration are pictures of the following men who signed it: John Adams, Richard Henry Lee, Thomas Jefferson, William Floyd, James Hewes, Elbridge Gerry, Samuel Chase, Samuel Huntington, Samuel Adams, Thomas McKean, Charles Carroll (of Carrollton), Thomas Heyward, Jr., Francis Hopkinson, William Paca, Robert Treat Paine, George Ross, Benjamin Rush, George Read, Edward Rutledge, James Wilson, Roger Sherman, Thomas Stone, Philip Livingston, Francis Lewis, Arthur Middleton, Thomas Lynch, Jr., Josiah Bartlett, George Clymer, Lyman Hall, George Wythe, Oliver Wolcott, Lewis Morris, John Hancock, Robert Morris, Benjamin Franklin and John Witherspoon.

Autograph letters of all the "signers," also, are shown, and a printed copy of the declaration, as it was issued July 5, 1776, besides a copy of it as it appeared in the Connecticut *Gazette* a short time afterward.

In a case below the Declaration of Independence is a photographic copy of the constitution of the United States. This is illustrated by an oil portrait of James Madison, the "father of the constitution," by his writings and by writings of John Jay and Alexander Hamilton, who together with Madison wrote the "Federalist." Pictures of the following members of the convention which framed the constitution are also shown: James McClurg, George Wythe, Luther Martin, John Francis Mercer, Oliver Ellsworth, Rufus King, John Blair, John Langdon, George Mason, Edmund Randolph, John Dickinson, Daniel Carroll, Alexander Martin, William Few, Alexander Hamilton, Gouverneur Morris, William Patterson, William Livingston, Nicholas Gilman, Nathaniel Gorham, William Samuel Johnson, Pierce Butler, Jonathan Dayton, George Read, George Clymer, James Wilson, John Rutledge, Richard Dobbs Spaight, Hugh Williamson, William Blount, Charles Cotesworth Pinckney, Charles Pinckney, Jared Ingersoll, William R. Davie, John Lansing, Benjamin Franklin, Robert Morris, Thomas Mifflin, Abraham Baldwin, William Jackson, Gunning Bedford, Richard Bassett, Daniel St. Thomas Jenifer, James McHenry, Elbridge Gerry, James Madison and Roger Sherman.

The early history of our government is further elucidated by letters of Benjamin Franklin and Franklin relics, by a portrait of George Washington, his writings and various Washington relics. Here, also, is exhibited a bronze equestrian statuette of Washington, by Baron Machetti, from the original study and model by his master, M. Houdon, of Paris, in 1785-90, for an equestrian statue, which, according to Thomas Jefferson, then minister to France, was sent to America by Houdon with the expectation of receiving an order from the Congress of the United States to have it cast in bronze. The model was destroyed by fire in Washington, leaving this statuette as the only survival. Relics and portraits of several of Washington's generals are shown, notably the sword voted by Congress to his aide-de-camp, Colonel Tench Tilghman, as the messenger who bore to Philadelphia the announcement of the surrender of Lord Cornwallis at Yorktown, and the sash of General Lafayette which was used to bind the wound he received at the battle of Brandywine, September 11, 1777.

The Revolutionary period is also illustrated by the original treaty of friendship and alliance with France, signed February 6, 1778, by pictures of Louis, the French king, of Count de Vergennes, his minister, through whom the negotiations were conducted, and by letters of Silas Deane, Arthur Lee, Ralph Izard and a few others, our early ministers abroad. There are also numerous letters of Louis.

To mark the close of the Revolution the treaty of peace with Great Britain is shown and a photograph of the painting of the signing.

After the formation of the government under the constitution, the expansion of the terri-

tory of the United States under various treaty provisions is shown by seven different maps, and five maps demonstrate the growth of our consular and diplomatic representation abroad.

The treaty purchasing the Louisiana territory from the government of Napoleon Bonaparte is illustrated by a portrait of Barbé Marbois, the negotiator on the part of the French government and by writings of Robert R. Livingston and James Monroe, the plenipotentiaries on the part of the United States. An oil portrait of Monroe is shown.

The treaty of peace with Great Britain which terminated the War of 1812 is illustrated by oil portraits of Henry Clay and John Quincy Adams, as well as by their writings and the writings of James A. Bayard, Jonathan Russell and Albert Gallatin, the other American plenipotentiaries. Other treaties of importance are shown, notably those from powers of the far East.

As proclamations are issued through the Department of State several original ones are displayed. There is an early Thanksgiving Proclamation of George Washington, the Nullification Proclamation of Andrew Jackson, accompanied by several Jackson relics, a portrait of John C. Calhoun and writings of Edward Livingston, Secretary of State when the proclamation was issued.

The Emancipation Proclamation of Abraham Lincoln accompanies his life-sized portrait, which is set off by a silk woven flag presented to the United States January 17, 1866, by the weavers of Lyons, as a durable expression of their sympathy at Lincoln's death.

A large number of letters of a ceremonial character from foreign sovereigns and presidents to the President of the United States are displayed. They include letters of historical interest and one from each head of government at the present day.

The history of the development of the present device for the American seal and coat of arms is shown by illustrations taken from the original designs, and a large emblazoned reproduction of the arms.

The International American Conference, held under the auspices of the Department of State in 1889, is called attention to by portraits of the delegates; and copies of the various reciprocal treaties that have been entered into are displayed.

EXECUTIVE MANSION.—The first case in the Department of State compartment is devoted to a simple showing of the workings of the office of the President of the United States. These are illustrated by a few blank forms, by the President's seal, and by the engraved cards used in official entertaining.

BUREAU OF THE AMERICAN REPUBLICS.—In the east gallery of the Government Building, which is reached by double stairways on either side of the eastern entrance fronting the lake, is the exhibit of the Bureau of the American Republics at Washington, made under the auspices of the Department of State.

The Bureau of the American Republics is an institution maintained at Washington by the nineteen independent nations of the American continents, "For the Prompt Dissemination of Commercial Information." It was established upon the recommendation of the recent International American Conference for the purpose of making known to the world, and particularly to the people of the United States, the resources, industries, progress and commercial advantages of the Republics of Mexico and Central and South America. Its headquarters are at No. 2 Lafayette Square, Washington, D. C., and its Director is William E. Curtis. The Bureau publishes an annual Handbook of the American Republics; a series of handbooks of each of the nations; commercial directories of the principal cities for the use of merchants and manufacturers; the tariff laws, import duties and customs regulations of the several countries, and frequent bulletins containing useful information for the benefit of those who desire to engage in trade with the other American Republics. It also answers specific inquiries concerning commercial matters.

Its exhibit is devoted to the illustration of the condition, resources, customs, industries and commerce of Mexico, Central and South America and the West Indies. Added to this is a special commercial exhibit, showing the articles of import into Latin American countries, their prices, popular patterns of goods, samples of implements in demand there, and the methods of packing for transportation into the interior of the countries when there are no railways.

The countries included in this classification are Mexico, Guatemala, Honduras, Salvador, Nicaragua, Costa Rica, Columbia, Venezuela, Ecuador, Peru, Bolivia, Chile, Argentine Republic, Uruguay, Paraguay, Brazil, Santo Domingo and Hayti, British Guiana and the West Indies generally.

By means of a profusion of enlarged photographs, drawings and paintings, a glimpse of those countries is given the observer. Beginning with Mexico, these pictures represent the features of each country, its native population, its architecture, etc., from the Rio Grande to Cape Horn. Many photographs and paintings show the peculiar costumes and customs of the people, how they eat, sleep, work and amuse themselves at their national games, and finally how they dispose of their dead, with the peculiar methods of sepulture, tombs and monuments.

Particular attention has been paid to the elaboration of everything distinctive in the life of the Central and South American people in order to familiarize residents of the North with their distinguishing characteristics. A prominent place has been given to articles of food supply, with the methods of preparation and use. Under this head come the indigenous cereals, fruits and vegetables; their cultivation, irrigation and harvesting and the storing of crops. The processes of raising and curing coffee, with pictures of machinery used for pulping, drying and cleaning the berries. The same with sugar. The ancient and modern systems are fully illustrated, from the primitive "bull-mills" in use by the natives to the great establishments of the Island of Cuba.

It is well known that these countries are deficient in the mechanical arts and their application, and in order to show what they need and what can be supplied from the United States the various trades and professions are presented, illustrating the proficiency of the natives in every branch. Education and religion and the status of the people in these matters are indicated by photographs of schools and churches, shrines and chapels, and articles used in religious ceremonies.

Of special value in this connection are the photographs illustrating transportation facilities, or the lack of them, such as native carts, trucks, sillas, and vehicles adapted to districts where there are no regular roads; also mule-trains, llamas, and other native beasts of burden. Roads and bridges are also illustrated, ancient and modern, as well as those improvised on the spur of necessity, and the hammock bridges in the mountains, constructed of vines and cables. Navigation is represented by photographs of canoes, balsas, etc., with their equipments. Modern railroads and the character of their equipment, tunnels, viaducts, and tramways and the systems in use.

There are many magnificent photographs illustrating the physical features of the countries, such as the great mountains and volcanos of Popocatepetl, Ixtaccihuatl, Chimborazo, Acaucagua and the higher peaks of the Andean chain, with the rivers, valleys, plateaus, coasts and harbors. Also, illustrations of the most notable examples of architecture, the cathedrals, churches, theatres, city halls, country residences and plantation houses.

Incidentally the history of the countries is exemplified by photographs of their noted men, heroes of more than local celebrity. There are fac-similes of their declarations of independence and historical papers relating to the revolutions that established the autonomy of the different republics. These portraits and fac-similes are extremely valuable. They are for the first time presented and illustrate the two great epochs in the history of these countries.

But pictorially and historically valuable as are all these exhibits, showing the resources of the Central and South American States, their value is enhanced by the fact that they are in a manner tributary to a more practical presentation, which is known as the commercial exhibit.

It has long been recognized that a great and growing market for American goods lies to the south of the United States, but it is practically controlled by the merchants and manufacturers of Europe. Owing to its contiguity to the United States this market should be supplied and controlled by Americans, but such is not the case. There is hardly an article supplied to that market that could not be sent quite as cheaply from the United States as from Europe, and it is to indicate to American manufacturers, merchants and shippers the vast possibilities open to them in the way of future trade that this commercial exhibit has been brought together. For this purpose the principal articles of import into the Latin American countries that are not made in the United States are shown and enumerated, representing the classes of goods best adapted to the wants of the people in every district; the most popular patterns and styles of dress goods and other fabrics for wearing apparel, boots, shoes, millinery, hosiery and articles of adornment. There is an immense trade in these things, and it has only been obtained by catering to the wants and even the caprices of the customers.

A vast field is open for the introduction of machinery, agricultural implements, steam engines, and in fact everything that is needed in the development of a new and unexploited country. The same may be said respecting drugs, chemicals, provisions, china and earthenware, glass and hardware, jewelry and watches, pianos and musical instruments, perfumery, toilet and fancy goods, lithographs, furniture of a class used in tropical countries, and everything needed in household furnishing and adornment.

Samples of the goods and manufactures most in demand in Central and South America have been obtained by purchase in their markets and are exhibited. A special bulletin of the Bureau of the American Republics has been prepared giving prevailing prices, terms of payment and every particular relating to size, quality and character of goods, etc., for the guidance of the American producer. Of equal value to the would-be shipper to this market is the special information regarding the packing and shipment of goods, machinery, etc., as frequently the best markets are far in the interior and all articles must be transported on the backs of mules, llamas or men. To make this object lesson perfect the director of the Latin American department has had prepared complete models of carriers, and stuffed specimens of those animals employed as beasts of burden, each one equipped with its proper accoutrement of pack-saddle, silla, etc., and carrying an exact model of the load intended for it. These examples show how goods should be packed to insure safe and proper transit over the roads and trails of each country, giving also dimensions and maximum weights permissible, so as to suit all methods of local transportation.

The necessary material for the packing is also given. Where the articles themselves could not be presented as samples, they are fully illustrated by the supplementary sketches and photographs, showing perfectly their uses and functions.

Unique as a whole, picturesque and beautiful, this collection in the gallery of the state department has a practical bearing that will commend it to every one who is interested in the development of American commerce.

The recent International American Conference is commemorated by a large frame containing photographs of all the officers and delegates, and the flags of the various nations which participated.

An immense relief map of Mexico, Central and South America gives the observer a bird's-eye view of those continents, showing all the lines of transportation by sea and land, and the proposed route of the Inter-Continental Railway which has been surveyed under the auspices of the

United States according to the recommendations of the International American Conference. This map has been prepared under the supervision of the engineers engaged upon that survey, and gives an excellent idea of the line that is to connect North, Central and South America.

Department of the Interior.—This Department is making exhibits from the United States Geological Survey, the Bureau of Indian Affairs, the Patent Office, the General Land Office, the Bureau of Education, the Census Office, the Yellowstone, Yosemite and Sequoia National Parks and the Territory of Alaska. Briefly summarized, the exhibits are as follows:

GEOLOGICAL SURVEY.—The Geological Survey elucidates the geology of the country and represents its work in both the field and the office. Mineralogy is shown by specimens selected from all quarters, and also rocks as an educational collection. Cases of American fossils are arranged to show their distribution in the United States and their order in the geological column. In connection with these are restorations of some of the enormous fossil animals discovered by Prof. Marsh. The office work is illustrated by photographs and photographic transparencies, maps and drawings. The instruments used in the work of the survey are displayed, together with a series of enlarged relief maps, to show the geology and topography of the country. In addition to the collections having a purely scientific value, a collection has been prepared to show the economic resources of the United States, including ores and minerals of commercial value, arranged so as to illustrate at a glance the wealth of the United States as regards each particular class of objects.

BUREAU OF INDIAN AFFAIRS.—The functions of the Indian Bureau are illustrated by specimens of the work of North American Indians, showing their native industries as compared with their accomplishments in the arts of civilization. The exhibit from this bureau shows the civilized side of the Indian, portraying the educational work which the government is doing. An Indian school is in operation in a building erected for the purpose. The rooms and halls of the building are decorated with articles of Indian manufacture, blankets, beads, pottery, baskets, etc. The windows are filled with transparencies showing scenes on Indian reservations and pictures of Indian life and customs. In the school-rooms are specimens of penmanship, drawing, composition and other school room-work, sent from the various government schools. Indian art is shown by decorations upon the walls, and the work of Indian mechanics is represented in the way of specimens of harness, tinware, carpenter work, shoemaking, farm products, etc. The main interest of the Indian exhibit consists in the carrying on of an Indian boarding school, in which boys and girls, with their instructors, will live, study, recite, sew, prepare meals, work at their trades and carry on all the industrial and educational life and training which pertain to a boarding school upon an Indian reservation. The school building has shops, school-rooms, sitting-rooms, dining-room, kitchen, dormitories and rooms for employes. The picturesque and impressive side of primitive Indian life is shown by presenting the living Indian in his own habitation and carrying on his own avocations. With this end in view, several Indian families, representing different tribes, have been located near the Indian building, showing their customs, life and occupations in their primitive and aboriginal surroundings.

PATENT OFFICE.—The Patent Office exhibit illustrates the marvellous rate of progress in invention of the present age and the fostering influence of the American patent system in this regard. There is shown to inventors and mechanics the methods, processes and requirements of the Patent Office. The exhibit consists of groups of models arranged in series, those in each art being arranged by themselves, so that the entire display constitutes an outline history of the development of the useful arts. This exhibit should prove highly interesting and profitable, since the juxtaposition of the crude and imperfect devices which marked the inception of each art, with those showing the acme of development now reached, illustrates the progress that has been made, while the presence, serially and chronologically arranged, of the types representing the important intermediary steps shows in a graphic manner how the present results have been attained.

GENERAL LAND OFFICE.—The exhibit of the Land Office embraces maps and plats showing the public lands, their location, character products, etc., and the timber, mineral and agricultural resources of the various sections of the country. The line of the exhibit is the "public lands" and the "public land system" of the United States. The exhibit is graphic and delineatory, representing the work of the different divisions of the office. Placed before the public, in an attractive manner, information is given as to the development of the country from its infancy to the present time; its growth by cession and purchase; the development of the acquired territory; advancement in the system of surveys adopted by the United States; location of the agricultural lands disposed of and in possession of actual settlers; agricultural lands not disposed of; location of discovered and developed mineral lands; lands segregated to railroads; the area of timber and desert lands, etc.

BUREAU OF EDUCATION.—The Bureau of Education exhibits its publications, and by suitable devices, the methods of diffusing information through reports and correspondence; its blank forms of inquiry and other methods of collecting information, and by figures and graphic devices on charts, a digest of statistical information respecting all classes of schools in the United States. The library and museum division exhibits the evolution of the text book and illustrates the character of its various collections. Text books printed in the earliest years of the settlement of the country are shown. An effort has been made to show the relative character of American and foreign text books. There is also shown a model library of pedagogy and general instruction. The collection of books is a model one in every respect, classified and shelved according to the most improved system. Finding lists, dictionary and classified catalogues, accession books,



BOARD OF MANAGEMENT AND CONTROL THE U. S. GOVERNMENT EXHIBIT.

- | | |
|--|---|
| 1. ELIJAH C. FOSTER,
<i>Gen. Agt. Dept. of Justice.</i> | 2. PROF. G. BROWN GOODE,
<i>Asst. Secy. Smithsonian Institute.</i> |
| 3. W. E. CURTIS,
<i>Department of State.</i> | 4. FRED A. STOCKS,
<i>Treasury Department.</i> |
| | 5. MAJOR CLIFTON COMLY,
<i>War Department.</i> |
| | 6. EDWIN WILLITS,
<i>Department of Agriculture.</i> |
| 7. CAPT. R. W. MEADE,
<i>U. S. Navy.</i> | 8. A. D. HAZEN,
<i>Post Office Department.</i> |
| 9. HORACE A. TAYLOR,
<i>Commissioner of Railroads.</i> | |
| 10. TARLETON H. BEAN,
<i>U. S. Fish Commission.</i> | 11. F. T. BICKFORD,
<i>Secy. and Executive Officer.</i> |

circulation books, and in fact every requirement of a properly conducted library is shown. The museum exhibits the development of the school-room, school building and grounds, much attention being devoted to the arrangement of rooms, heating apparatus, ventilation, sanitation, etc. The evolution of school furniture is exhibited and the development of school apparatus and appliances. The objective method of instruction, as practiced in laboratories and kindergarten and manual training schools, is shown.

CENSUS OFFICE.—The Census Office exhibits the novel electrical tabulating system developed during the taking of eleventh census, with skilled operators at work, and exhibits also a series of illuminated charts, maps and diagrams, showing the more striking features of our national development and our rate of progress, movement of population, population by race, sex, nativity, etc. Also the manufacturing, mining and agricultural interests of the country and other statistics of value.

NATIONAL PARKS.—From the Yellowstone Park are exhibited various specimens of minerals, rocks, sections of the curious formations about the geysers and of petrified trees, and many other curiosities abounding in that well named "wonderland." From the Sequoia Park is exhibited a big tree, one of the finest specimens to be found in California. The section has been erected in the rotunda of the Government Building. From the Yosemite are shown large photographs of some of the most noted big trees and of the remarkable scenery of that region.

TERRITORY OF ALASKA.—From Alaska is exhibited a full collection showing the resources of that great Territory. There are minerals, fish, furs, oils, timber, etc. There is also a great collection of curios manufactured by the native Alaskans.

U. S. Fish Exhibit.—According to the Act of Congress creating the United States Government exhibit the functions of the fish commission exhibit have four special branches, viz: Inquiry respecting food fish; propagation of food fish; statistics relating to national fisheries and their methods, and the live fish exhibit in the aquaria. The area given the fish exhibit in the building comprises about one-sixth of the entire space. By far the most interesting features are the various illustrations of the science of fish farming. Spawn and little fish in all stages of development are shown. The statistics relating to government fisheries tell the visitor that at a single station on the Massachusetts coast the government hatched 55,000,000 cod fish and 20,000,000 lobsters last year. There are government fishing stations and hatcheries in twenty-two different States, and these include the great fresh water fish hatcheries of the interior, beside the sea-coast hatcheries. The main idea of the government fisheries exhibit is to illustrate not only the methods of catching fish and fish culture but the fisheries themselves and their management. In the department of fish culture there are tanks and troughs showing the methods of hatching shad, pike and perch. These are called rearing troughs. Actual spawn will be used during the Exposition, except possibly two months in midsummer, when natural eggs cannot be had. Artificial eggs will then be used. The growth of the fish is shown by means of casts of yearlings, 2-year-olds, 3 and 4-year olds, etc. These casts are of material which the government keeps secret, and are mounted on screens. Another interesting portion of this exhibit comprises the methods of taking eggs from the fish. There are fishermen's dories and full sized lay figures, representing fishermen in the act of securing the spawn. There is also a historical series of fish culture apparatus. There are models of complete fishing stations and rigged vessels. Among these models are the trout station in Colorado and whitefish station at Put-in-Bay, the shad station at Havre de Grace, Md., and the cod station at Woodshull, Mass. There is also a complete series of transportation apparatus, showing the methods of transporting fish in cans or boxes. There is a valuable series of charts showing the effects of fish culture upon the different fisheries, and a complete series of photographs illustrating the operations of the United States Fish Commission. The department of scientific inquiry includes very valuable instruments for taking deep sea soundings. There are splendid models of the steamers Albatross and Fish Hawk, the two principal government steamers engaged in the fisheries. There are nets which are used in bringing fish to the surface from a depth of three miles and more. Most interesting are the specimens of animal life brought from these vast recesses of the ocean. Intricate machinery for winding deep sea nets, charts, maps and a library of fish literature go to make up a marvelous exhibit. There are corals, sea plants and sponges taken in these deep sea soundings. There is also a model of engines used in the submarine cable survey. In the department illustrating commercial fisheries there are papier-mache casts of large marine animals, including a little whale, grampus, porpoise, sturgeon, a twelve-foot halibut and sharks. There are hundreds of these casts, giving a comprehensive idea of the extent and variety of government fisheries. There are models of vessels and boats used in the fisheries, some being remarkably handsome. The development of fishing craft, from Indian canoes and dug-outs to the modern whalers and oyster boats, are freely shown. Then there are full-sized sealing and whaling boats, equipped with all the apparatus used in actual work. There is a life-sized group of hair seals and another of fur seals. There is a ten-foot horse mackerel. Up by the gallery there are lay figures, one being a man in the act of harpooning a whale and another representing a man in the rigging looking out for whales. There is a figure of a negro fisherman and another of a Chesapeake bay fisherman. There are models of the splendid fishway on the Potomac, where fish swim up stream and falls without effort. There are fish traps, nets and seines in great profusion and a special exhibit of the Alaska fisheries. There is a cage of birds which subsist on fish. One corner of the exhibit is devoted to anglers and their appliances. There are lay figures representing various angling scenes.

[For description of the exhibit of the United States Fish Commission in the Fisheries Building, see "Department D—Fish and Fisheries."]

Colonial Exhibit.—The Colonial exhibit is made in the United States Government Building. Mrs. Ralph Trautman, of New York City, Mrs. Sallie Cotton, of North Carolina, and Mrs. George Wilson Kidder, of Wilmington, N. C., formed the committee from the Board of Lady Managers to obtain space for the display in the Government Building. The committee was assisted by Mrs. Gillespie, of Philadelphia, a great granddaughter of Benjamin Franklin, who was President of the women's section of the Centennial. These ladies personally secured the aid of President Cleveland and the Cabinet officers, and secured space for their exhibit in the dome of the building. One of the conditions made by Secretary Gresham when he endorsed the project was that each item of the display should have historic value as well as personal interest. The Board of Lady Managers installed the Colonial exhibit in six of the arches of the dome. The two remaining arches are occupied by the Declaration of Independence and the original Constitution of the thirteen original States. No two objects within the Exposition attract more attention than these, nor are more closely guarded, consequently the owners of the colonial relics may feel particularly assured that their treasures are under the government's protection. The six arches are equally proportioned among the thirteen original States participating in the Colonial exhibit, their respective flags and State coat-of-arms indicating the location of each. North Carolina made liberal provision for her participation in the exhibit, and New York appropriated \$10,000 to her share. Massachusetts also takes active participation in this exhibit.

United States Weather Bureau.—This building stands northeast of the Government Building. It is a wooden structure, covered with cement to resemble cut stone, and is two stories with tower. In size it is 40x50 feet. The first floor is used for meteorological apparatus and the printing of weather maps. The second floor is used for a hall, one end having a platform from which is given stereoptican views and lectures on meteorological subjects and the forecasting of the weather. The tower is used for observation and meteorological instruments. Cost of building, \$5,965.

Life Saving Station.—Located on the edge of the north pond, to the east of the Illinois State Building, is the Life Saving Station, which is equipped with every appliance, and a regular crew goes through all life saving manœuvres. The station consists of a one and one-half story frame building, 67x35 feet, with covering of shingles and clapboards. The gables are treated with overhanging ends. A portion of the roof is truncated, protected by a hand railing, forming a lookout deck, which connects with a small rectangular watch tower. The general treatment is Colonial. The structure combines a dwelling for the crew together with a boat and apparatus room. The dwelling portion is surrounded by a broad uncovered platform with railing. On the east side is the entrance porch. The dwelling contains, on first floor, four living rooms, also hall, entry, pantry, closets, etc. Above are sleeping quarters for the crew, spare-room, clothes-room, storage, lavatory, etc. A circular iron staircase, from the second floor, leads to the watch tower and lookout deck. The boat-room is on the first floor, 37 feet 6 inches by 34 feet 2 inches, fitted with closets, and arranged to accommodate two or more life boats, together with the complete apparatus used for life saving purposes. On the west side the boat-room connects with the water by a launchway. The boats, with crews aboard, run by gravity to take the water. As this is a permanent station for the United States Life-saving Service, and will so remain after the closing of the Exposition, utility has been considered more than mere ornamentation in the general design. Its cost, exclusive of apparatus and furnishings, was \$10,000.

Lighthouse Exhibit.—The exhibit made by the United States Lighthouse Board is the tower constructed for the Waackaack lighthouse, New Jersey. It is located on the north pond, directly north of the Fisheries Building. It is an iron skeleton structure, surmounted by a parapet and a lantern, accessible from below by a spiral stairway inclosed in a cast-iron cylinder. The skeleton structure, which rests upon eight circular foundation disks anchored to a concrete foundation, is composed of columns, sockets, struts and tension-rods, forming a frustum of a square pyramid, bounded on top by an architrave supporting an octagonal gallery, a circular parapet and a decagonal lantern. The frustum has a base 28 feet square; its height is 84 feet to the lower face of the architrave, where its sides form a square of 8 feet 8 inches on each side.

United States Government Board of Management and Control.—This board is authorized by Section 16 of the Act of April 25, 1890, and consists of one representative from each executive department, from the Smithsonian Institution and National Museum, and from the Fish Commission. The chairman of the board is appointed by the President of the United States and the board itself is given authority to select such other officers as it may deem necessary. The members of this board serve without compensation other than their regular pay as government officials.



VARIOUS OFFICERS WORLD'S COLUMBIAN EXPOSITION.

- | | | |
|---|--|---|
| 1. A. B. HURT,
<i>Secy. Agricultural Dept.</i> | 2. JOHN THORPE,
<i>Supt. of Horticulture.</i> | 3. BEN. C. TRUMAN,
<i>Asst. Supt. of Horticulture.</i> |
| 4. CHARLES WRIGHT,
<i>Supt. of Pomology.</i> | 5. H. M. LA RUE,
<i>Supt. of Viticulture.</i> | 6. DR. JAS. A. HENSHALL,
<i>Asst. in Charge Angling Exhibit.</i> |
| 7. E. L. BURCHARD,
<i>Chief Clerk Mines and Mining.</i> | 8. D. C. BOYCE,
<i>Expert Coal and Iron.</i> | 9. J. S. CAREY,
<i>Chemist and Assayer.</i> |
| 10. S. J. MACOMBER,
<i>Machinery Expert.</i> | 11. W. A. RABORG,
<i>Mineralogist.</i> | 12. H. FITZ-JOHN PORTER,
<i>Engineer Machinery.</i> |
| 13. A. A. ABBOTT,
<i>Supt. Vehicle Division Transportation Building.</i> | 14. LIEUT. A. C. BAKER,
<i>Supt. Marine Division Transportation Building.</i> | 15. CLINTON COLLIER,
<i>Supt. Shoe and Leather Division.</i> |



VARIOUS OFFICERS WORLD'S COLUMBIAN EXPOSITION.

1. JOS. HIRST,
Secy. of Installation.
2. FRED. BRACKETT,
Special Agent for Foreign Exhibitors.
3. E. BREWER,
Chief Clerk Dir.-Gen. Office.
4. E. H. TAYLOR,
Secretary Dir.-Gen. Office.
5. N. E. DAWSON,
Private Secretary Dir.-Gen. Office.
6. D. N. BARTOLETTE,
Surgeon U. S. N.
7. R. J. C. IRVING,
Lieutenant U. S. A.
8. E. C. CULP,
Secy. Com. on Ceremonies.
9. R. J. MURPHY,
Secy. Press Committee.
10. R. A. ROGERS
Chief Clerk to Secy. National Com.

DUTIES AND POWERS OF THE VARIOUS OFFICIALS.

WORLD'S COLUMBIAN COMMISSION.

THIS body is known by the title of the "World's Columbian Commission," as designated by the Act of Congress, approved April 25, 1890, and as set forth in the by-laws. The Commission has an Official seal, circular in form, with the following devices thereon. Around the margin of the words:

"World's Columbian Commission, created by Act of Congress of the United States of America, organized 1890."

In the center a vignette composed as follows:

In the top of the circle the eagle, copied from our National coat of arms, perched upon the figure of a globe, and below it a section of the well-known picture of the landing of Columbus, showing the prow of the boat.

National Commissioners.—Two from each State and Territory, provided for by the Act of Congress creating the World's Columbian Commission; appointed by the President of the United States, on the nomination of the Governors of the States and Territories, respectively; also two Alternate Commissioners appointed in the same manner and within the same time; also eight Commissioners-at-Large and two from the District of Columbia, appointed by the President of the United States, and the same number of Alternate Commissioners, appointed in the same manner and within the same time. In the nominations and appointments each of the two leading political parties (Democratic and Republican), were equally represented. Vacancies in the Commission nominated by the Governors of the several States and Territories, respectively, and also vacancies in the Commission-at-Large and from the District of Columbia may be filled in the same manner and under the same conditions as provided for their original appointment. Immediately after the passage of the Act, the Secretary of State of the United States notified the Governors of the several States and Territories, respectively, thereof and requested such nominations to be made. The Commissioners so appointed were called together by the Secretary of State of the United States in the City of Chicago, by notice to the Commissioners, within thirty days after their appointment. The Commissioners, at the first meeting, organized by the election of such officers and the appointment of such Committees as they deemed expedient.

The duties, powers and compensation of the Commission were set forth in Sections, of the Act as follows:

That said Commission be empowered in its discretion to accept for the purposes of the World's Columbian Exposition such site as may be selected and offered and such plans and specifications of buildings to be erected for such purpose at the expense of and tendered by the corporation organized under the laws of the State of Illinois, known as "The World's Exposition of eighteen hundred and ninety-two." *Provided*, That said site so tendered and the buildings proposed to be erected thereon shall be deemed by said Commission adequate to the purposes of said Exposition: *And Provided*, That said Commission shall be satisfied that the said corporation has an actual bona fide and valid subscription to its capital stock which will secure the payment of at least five millions of dollars, of which not less than five hundred thousand dollars shall have been paid in, and that the further sum of five million dollars, making in all ten million dollars, will be provided by said corporation in ample time for its needful use during the prosecution of the work for the complete preparation for said Exposition.

That the said Commission shall allot space for exhibitors, prepare a classification of exhibits, determine the plan and scope of the Exposition, and shall appoint all judges and examiners for the Exposition, award all premiums, if any, and generally have charge of all intercourse with the exhibitors and the representatives of foreign nations. And said Commission is authorized and required to appoint a Board of Lady Managers of such number and to perform such duties as may be prescribed by said Commission. Said Board may appoint one or more members of all committees authorized to award prizes for exhibits which may be produced in whole or in part by female labor.

That after the plans for said Exposition shall be prepared by said corporation and approved by said Commission, the rules and regulations of said corporation governing rates for entrance and admission fees, or otherwise affecting the rights, privileges, or interests of the exhibitors or of the public, shall be fixed or established by said corporation, subject, however, to such modification, if any, as may be imposed by a majority of said Commissioners.

That it shall be the duty of the Commission to make report, from time to time, to the President of the United States of the progress of the work, and, in a final report, present a full exhibit of the results of the Exposition.

That the Commission hereby authorized shall exist no longer than until the first day of January, eighteen hundred and ninety-eight.

That the Commissioners and alternate Commissioners appointed under this act shall not be entitled to any compensation for their services out of the Treasury of the United States, except their actual expenses for transportation and the sum of six dollars per day for subsistence for each day they are necessarily absent from their homes on the business of said Commission. The officers of said Commission shall receive such compensation as may be fixed by said Commission, subject to the approval of the Secretary of the Treasury, which shall be paid out of the sums appropriated by Congress in aid of such Exposition.

STANDING COMMITTEES.

Judiciary, Rules, and By-Laws.—(Consisting of eight commissioners.) Formulate Rules and By-Laws for submission to the Commission, and report on all such matters as may be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control.

Tariffs and Transportation.—(Consisting of sixteen Commissioners.) Have consideration of all such matters relating to tariffs, bondage, and releasing of goods, and the transportation of goods, as may be referred to it by the National Commission, its Executive Committee, or its Board of Reference and Control, in conjunction with such officers of the Treasury Department as may be appointed.

On Foreign Affairs.—(Consisting of eight Commissioners.) Have charge of all matters pertaining to the foreign exhibits of the Exposition that may be referred to it by the National Commission, its Executive Committee, or its Board of Reference and Control.

On Legislation.—(Consisting of the Commissioners and alternates from each State, Territory, and the District of Columbia, and also the Commissioners-at-Large and their alternates.) Have consideration of all matters pertaining to the State, Territorial, or Municipal legislation affecting the Exposition.

On Federal Legislation.—(Consisting of twelve Commissioners.) Have charge and jurisdiction of all matters of Federal legislation relating to or in anywise connected with the interests of the Exposition.

On Fine Arts.—(Consisting of eight commissioners.) Have charge of all matters pertaining to fine arts which may be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control.

On Science, History, Literature, and Education.—(Consisting of eight Commissioners.) Have charge of all matters pertaining to these subjects that may be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control.

On Agriculture.—(Consisting of sixteen Commissioners.) Have charge of all matters pertaining to agriculture which may be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control.

On Live Stock.—(Consisting of sixteen Commissioners.) Have charge of all matters pertaining to live stock, including domestic animals, poultry and birds of all varieties, as shall be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control.

On Horticulture and Floriculture.—(Consisting of sixteen Commissioners.) Have charge of all matters pertaining to these subjects that may be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control.

On Finance.—(Consisting of eight Commissioners.) Have charge of all matters pertaining to the expenditures of the Commission under the Act of Congress, or such other matters of finance as may be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control.

On Auditing.—(Consisting of four Commissioners.) Have charge of examining and auditing all paid bills and accounts of the Commission; and this Committee may hold sessions at the call of its Chairman, not oftener than once in two months.

On Ceremonies.—(Consisting of ten Commissioners, two of whom shall be the President and Secretary of the Commission.) Have charge of all matters pertaining to the inauguration of the World's Columbian Exposition, and all ceremonies connected from time to time therewith.

On Classification.—(Consisting of sixteen Commissioners.) Have charge of all subjects pertaining to the classification of exhibits, and the limitation of space therefor, as may be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control.

On Manufactures.—(Consisting of sixteen Commissioners.) Have charge of all matters pertaining to this subject that may be referred to it by the Commission, its Executive Committee, or its Board of Reference and Control.

On World's Congresses.—(Consisting of eight Commissioners.) Act in connection with the Local Directory in reference to any World's Congress that may desire to assemble here during the Exposition.

On Grounds and Buildings.—(Consisting of six Commissioners.) Have charge and supervision of the grounds and buildings in so far as the Commission may exercise authority over the same, and also examine and report to the Commission as to the provision made by the World's Columbian Exposition for such buildings, as it shall be thereto required, by the order of the Commission, its Executive Committee, or its Board of Reference and Control.

Each of the said several standing committees has power and authority to investigate, from time to time, the workings of the several great departments, respectively, having charge of the particular subject, or subjects, with reference to which each such committee was created; and from time to time to make reports and recommendations respecting the same, either to the Board of Reference and Control, the Executive Committee, or to the Commission.

On Awards.—Appointed by the President, consisting of twelve Commissioners; authorized to meet at the call of the Chairman, and have charge of the subject of awards, and who, in connection with the Director-General, select and appoint the Board of Judges, subject to the approval of the Commission. Said Committee is empowered to employ a secretary at a salary not to exceed \$5,000 per annum.

Groups and Classes.—Provided by the Commission as a means of determining where the different exhibits are installed and of associating the exhibit, its relation to the industry that is represented, and as an aid to the Committee on Awards in determining judgment.



VARIOUS OFFICERS WORLD'S COLUMBIAN EXPOSITION.

- | | | |
|--|---|--|
| 1. NATHANIEL S. ROSENAU,
<i>Supt. of Charities and Corrections.</i> | 2. JOHN B. DINSMORE,
<i>Supt. Cattle Division.</i> | 3. WM. O. PRATT,
<i>Supt. of Education and Sanitation.</i> |
| 6. E. D. YORK,
<i>Department Foreign Affairs.</i> | 5. H. W. CANNON,
<i>Chief Clerk Dept. Publicity and Promotion.</i> | 4. VICTOR SARNER,
<i>Editorial Assistant,</i> |
| 7. BESSIE B. BOYER,
<i>Secretary Transportation Dept.</i> | 8. JOHN M. WHITLAW,
<i>Supt. of Fish and Fisheries Bldg.</i> | 9. LIEUT. F. S. BASSETT,
<i>Interpreter Foreign Affairs Dept.</i> |
| 12. A. M. GARLAND,
<i>Supt. Sheep Division.</i> | 11. ADELAIDE F. WILLSON,
<i>Private Secy. Dept. Publicity and Promotion.</i> | 10. FRANK RIGLER,
<i>Supt. Mailing Division</i> |
| 13. T. HACKWORTH YOUNG,
<i>Supt. Railway Division</i> | 14. HUGH M. HUGHES,
<i>Supt. of Grounds,</i> | 15. C. R. PICKARD,
<i>Chief Clerk Foreign Affairs.</i> |

purpose of suggestion and conference, and to the end that all the agencies of the Commission may be rendered more efficient. It is also his duty to make a report to the World's Columbian Commission, at each regular meeting thereof, of his proceedings, and of the progress made in the work of the Exposition since the last meeting of said Commission, with such recommendations and suggestions as he may deem best to make to said Commission.

The Director-General has the power to appoint chiefs of the several great departments, subject to the confirmation of the National Commission and the Board of Directors of the World's Columbian Exposition, and not by any committee of either body.

He fixes the salaries of such chiefs, subject to the approval of the Board of Directors of the World's Columbian Exposition.

He has power to appoint all subordinates necessary to the proper administration of the several departments, and to fix their compensation.

He may make removals, for cause, of any and all officers and employes appointed by him.

He may, in his discretion and with the consent of the Executive Committee, or Board of Reference and Control of the National Commission, and the Executive Committee of the Local Directory, place two or more of the great departments under the control of one chief, and so continue them until necessity shall require independent chiefs.

The Director-General has power, and it is his duty to commission all such representatives of the Exposition as shall be officially authorized to promote the interests thereof. He has general charge of the installation of all exhibits and the control and management of the same to the closing of the work of the Exposition, through the department chiefs. He has exclusively to do with all exhibitors in their connection with or relation to the Exposition; he has the power to make requisition upon the Director of Works to supply the necessary force and material to install the exhibits, maintain their custody, and protect the interests of exhibitors to the end of the Exposition. In all matters the Director-General is under and subject to the control and direction of the Council of Administration.

The expenses of the Director-General's immediate office, and his clerk hire, are paid out of the Government funds appropriated by the 18th Section of the Act of Congress for paying the expenses of the Commission, and other contingent expenses, and he may select such assistants and clerks as may be necessary to enable him to properly discharge the duties of his office, and fix their salaries, subject to the approval of the Executive Committee, or the Board of Reference and Control.

Private Secretary to the Director-General.—His functions are to attend to the more delicate duties of the Director-General where they require personal contact, and he is the Director-General's confidential secretary and right hand man. The post is filled by Mr. N. E. Dawson who is an expert stenographer. Mr. Dawson was the private secretary of Gen. Grant when he was President and was also his confidential secretary through the days of his final illness until his death.

Secretary to Director-General.—The secretary has charge of all vouchers that pass through the Director-General's hands, and keeps a record of all allotment of space on the grounds.

Chief Clerk to Director-General.—This official is the principal aid to the Director-General, and performs all the functions incident to the office of chief clerk.

Secretary of Installation.—This is a part of the office of the Director-General, who has the exclusive charge of installation. The secretary of installation looks after that branch of the work, which consists of formulating all the general rules and regulations governing the Exposition, furnishing applicants for space with blank applications, rules and regulations and printed matter of a general character; to receive all applications, see that they are in proper form, classify and refer them to the department where they are to be installed, keeping a record of same; take charge of all correspondence with parties desiring to make an exhibit until their applications are duly filed and installed in the departments to which they belong. After this is done the chiefs of the departments take charge and continue any correspondence in regard to the same. The secretary also receives reports from the General Manager of Transportation of all cars containing exhibits when they arrive on the grounds; gives instructions as to where each exhibit is to be located, so that the Department of Transportation can deliver them to the building where they are to be installed without any delay, and to perform such other duties as may be assigned to the department by the Director-General.

Sergeant-at-Arms.—This position was created recently by the National Commission and Lieut. R. J. C. Irvine, Eleventh Infantry, U. S. A., was appointed. His duties are the same as those incident to the office of sergeant-at-arms of any large deliberative body. Lieutenant Irvine, prior to his appointment as sergeant-at-arms of the National Commission, was a military attaché of the Director-General's office.

Special Agent Foreign Exhibits.—As an attaché of the Director-General's office, the special agent has the arrangement of the installation of foreign exhibits.

Commissioner-at-Large.—In the fall of 1891, the Exposition company sent a commission (presided over by the commissioner-at-large), to southern Europe. Up to that time neither the people nor the rulers in that region of the world had manifested the slightest interest in the Exposition, but the commissioners appealed to both the potentates and the people, informing them fully of the stupendous undertaking in which this nation had embarked, and after some five months so spent in industriously disseminating all the information available, the most gratifying change of sentiment occurred and the liveliest interest was inspired. Not only did kings and queens respond most encouragingly (speaking alternately in French and German, as



HON. THOMAS B. BRYAN,
COMMISSIONER-AT-LARGE, WORLD'S COLUMBIAN COMMISSION.

they had been addressed), but the Pope, also acknowledging that he was surprised to learn of the grand scale of the international Exposition, promised to contribute generously to its success and did so first by his cordial letter to Commissioner-at-Large Bryan (translated and circulated in many lands), and next by contributing treasures never before permitted to leave the Vatican. The commissioner-at-large has, since that European mission, been incessantly occupied in conducting correspondence, and in multifold office work, delivering lectures and otherwise advancing the interests of the Exposition. It is expected that he will be unintermittingly occupied during the Exposition in communicating with and aiding foreign exhibitors, especially those not familiar with our language; also in helping the Director-General and other officers receive visitors, including the thousands of distinguished guests and attendants upon the World's Congresses.

[Thomas B. Bryan was born December 22, 1828, in Alexandria, Va. His father, Hon Daniel Bryan, was a prominent man in Virginia. He represented his district in the State Senate, besides holding other important positions. James and Philip Barbour, his mother's brothers, served in the highest offices of the State, in the United States Senate, United States Supreme Court, and in the Cabinet as Secretary of War. Mr. Bryan was graduated at Harvard University in 1848. While pursuing his college studies he wrote a book in the German language, the aim of which was to make it easy for Germans to acquire the English language. Many editions have been sold, it being pronounced an excellent work. He is also familiar with the French, conversing quite fluently in that tongue. Mr. Bryan married early in life Miss Jennie B. Page, daughter of an Episcopal clergyman. She is spoken of as a most gentle, accomplished and excellent lady. Their wedded life, which has already passed the fortieth anniversary, is very harmonious. After several years' successful practice of his profession in Cincinnati, in partnership with Judge Hart, Mr. Bryan came to Chicago in 1852, where he has been engaged in business up to the present time, with the exception of three years in Colorado, and during his governorship of the District of Columbia. Although Mr. Bryan is a very energetic man he is not ambitious. He has occupied many prominent positions with great credit to himself, and if he had been more eager for fame or political power, he might have been a leading orator, statesman or diplomat. After the death of Bayard Taylor, Mr. Bryan was strongly recommended for his successor as ambassador to Germany, the leading newspapers of the United States uniting in the recommendation. But, when Andrew D. White, of Cornell University, was mentioned for the position, Mr. Bryan encouraged the appointment, gracefully retiring from the field. Mr. Bryan, as vice-president of the World's Columbian Exposition, addressed conventions in many of the States, besides visiting Europe, where he succeeded in overcoming strong prejudices against the Exposition, and in arousing latent forces in its behalf. After his successful efforts at Washington he gained another great victory in the effort to get the consent of the Legislature of the State of Illinois to authorize the city of Chicago to issue \$5,000,000 in bonds for the benefit of the Fair. He was afterward appointed commissioner-at-large. Mr. Bryan is a sound lawyer, being a close student in his profession, and, as a convincing speaker, unusually gifted. His impromptu banquet speeches are always received with great applause, especially when a bit of humor, or an apt quotation, is sandwiched between more sober thoughts.]

CHIEFS OF DEPARTMENTS.

THEIR DUTIES, FUNCTIONS, ASSISTANTS, ETC.

Agriculture.—The work of the chief of this department has consisted in stimulating an interest in the department among State agricultural associations and organizations, agricultural implement people, the brewing industry, the canned goods associations and such other industries as are included in the classification of the Department of Agriculture, guided by his own experience in connection with work of a similar character, in a similar way, and the records of past expositions, and fairs, and other organizations of that kind. He has charge of the Agricultural Building and exhibits; also those of live stock, forestry and dairy products.

Secretary.—The secretary of the Department of Agriculture is the principal assistant to the chief of the department. He also looks after the general work of the Departments of Live Stock and Forestry. Mr. A. B. Hurt, the secretary, is a native of Mississippi, but his home is now at Chattanooga, Tenn., where he is one of the owners of the *Chattanooga Daily News*. Among the public positions he has held are the following: Member of the Mississippi Legislature, superintendent railway adjustments in the postoffice department, doorkeeper-in-chief of the national House of Representatives, and special agent of the United States Department of Agriculture. While holding the latter position he prepared a pamphlet on the agricultural resources of Mississippi, 20,000 copies of which were printed and distributed by the department. He was a commissioner to the New Orleans Exposition, and is at present an alternate commissioner from Tennessee to the World's Columbian Exposition. He has been connected with the Exposition from the very first, having worked for nearly three months at Washington, to secure the location of the Exposition at Chicago.

Horticulture.—This department is divided into three bureaus—floriculture, pomology and viticulture, the whole presided over by a chief whose duties require a general supervision over the Horticultural Hall and accessories and grounds. In this department are a Chief of the Bureau of Floriculture; a superintendent of the Bureau of Pomology; superintendent of the Bureau of Viticulture.

Fisheries.—The chief of this department has charge and general supervision of the exhibit of fish and fisheries.

Mines and Mining.—The chief of this department has charge and general supervision of the Department of Mines, Mining and Metallurgy. In this department are a chief clerk, an expert coal and iron division, an expert machinery division, an expert building and stone division, two mineralogists, a cartographer, superintendent of building.

Chief Clerk.—The chief clerk, in his capacity as first assistant to his chief, has a considerable weight of responsibility in the prominent Department of Mines, Mining and Metallurgy. Both in the long campaign for exhibits, as well as in the laborious task of installation, he has, under the direction of the chief, conducted an extensive correspondence, managed the details and routine business, and acted as general aid. In a special line of work he has been given charge of the exhibit illustrating the Industry of Metallurgy and has directed the formation and arrangement of the display. During the progress of the Exposition, in conjunction with the other officials of the staff, he will attend to the many requirements of exhibitors, tender the hospitalities of the department to the distinguished associations and personages making the Mining Building their headquarters, and gather material for the descriptive and statistical report to be made by the department at the close of the Exposition.

Machinery.—The duties of the chief of this department are an exercise of control and management of the Machinery Building and Annex and the exhibits therein. Soon after his appointment he placed himself in communication with the manufacturers of machinery throughout the United States, opening correspondence with them with a view of getting applications, which he did through the scientific and engineering societies and also by sending out circulars in reference to the exhibit of machinery. By that means he was brought in contact with about 2,000 machinery builders. Invitation of an exhibit of machinery from other countries was made through the means of the representatives of foreign nations.

Transportation Exhibits.—The chief has charge of the department and buildings placed at the disposal of transportation exhibits, and that includes all exhibits relating in any way to the science of transportation, showing the development of it, and divided into railroads, vehicles and marine transportation.

Manufactures.—This department was organized July 21, 1891, and in accordance with instructions from the Director-General the Chief of the Department at once began his work. In a short time upward of 30,000 pieces of mail matter were sent out to every prominent industry and manufacturer, trade journal, organizations and commercial body throughout the United States

and to many foreign countries, giving information to intending exhibitors, anticipating one of the most complete exhibitions of manufactured products ever presented to the world. The chief has general supervision and control over the exhibits in that part of the Manufactures Building not occupied by the Department of Liberal Arts; also of the Shoe and Leather Building and exhibits of **Electricity**.—The chief of this department has the general management and control of the exhibits of electric appliances and apparatus. In this department is also an assistant chief.

Fine Arts.—The chief of this department, soon after his appointment, visited most of the countries of Europe and conferred with the government authorities and directors of art museums, schools, etc., and with the leading artists of this country, resulting in the formation of art commissions which have charge of arts of the various countries. The chief has general supervision and control over the Fine Arts Building and exhibits.

Assistant Chief Fine Arts.—This official's duties have consisted in coöperating with the chief of the department in every possible way in the direction of securing exhibits of the highest degree of excellence from the various art-producing countries of the world, and in installing the exhibits received in the manner deemed most effective and just to artists and visitors to the Exposition. He has been connected with the department since August, 1891. With the chief of the department he visited England, France, Holland and Belgium, and assisted in the work of interesting artists and officials in those countries. Later, he returned to America and conducted the affairs of the department here during the protracted absence of Chief Ives in Europe. He spent several months, at various times, in New York, in organizing the exhibit of American artists.

Liberal Arts.—The chief of this department has general charge and supervision of exhibits pertaining to education, hygiene, sanitation and medical and surgical instruments; all matters of literature, books, physical apparatus; religious and social organizations; matters pertaining to government and law; of commerce and banking; music and instruments of music; civil engineering architecture.

Ethnology.—The chief of this department has general charge and supervision of isolated and collective exhibits of ethnology, archæology and of the progress of labor and invention in the Anthropological Building.

Assistant Chief Ethnology.—Mr. Franz Boas has been connected with the Department of Ethnology the past two years as assistant to the chief, in charge of the section of physical anthropology, and will remain in that department during the Exposition.

Foreign Affairs.—While it has been the duty of the chief of this department to lighten the labors of the Director General and assist co-workers of the various departments in everything connected with the representation of foreign countries, it has also been his task to minister to the wants of the foreign ministers themselves, furnishing them with all requisite information and welcoming them with the cordiality shared by the whole community. To accomplish a satisfactory representation from abroad a regular and systematic correspondence was established, which extended throughout the habitable globe, and embraced names distinguished in science, literature, art and commerce. The work was entirely abroad, and agents were sent to London, Rome, Mexico, South America and other foreign countries to seek general exhibits. The chief's present duties consist of correspondence with any foreign agents or exhibitors, or representatives in charge, and doing all that pertains to foreign matters looking to the closing of affairs.

Secretary Foreign Affairs.—Richard Lee Fearn, the Secretary of the Department of Foreign Affairs, came to Chicago thoroughly equipped for the work required of him by reason of long experience as a Washington newspaper correspondent. Although scarcely over thirty years of age he has, in the opinion of the principal officials of the Exposition, creditably discharged the responsibilities which have devolved upon him on a number of occasions when his brother, the chief of the department, has been called away from his desk, often for weeks at a time. The attractive circulars of information of the department, which contributed so much to making the plan of the Exposition understood abroad, as well as the official labels which were attached to every exhibit which has been brought into the Exposition grounds, were of his design and execution, but his unflagging industry has principally been directed to the routine details of the department and to answering the innumerable questions of visitors which might otherwise have absorbed the entire time of his chief.

Assistant Secretary.—Mr. S. Chapman Simms has filled the position of assistant secretary of the Department of Foreign Affairs since the organization of the department. His duties are to look after the correspondence, code of cables and the general care of foreign commissioners on their arrival at the Exposition.

Interpreter.—Lieut. Fletcher S. Bassett, United States Navy, retired, has been with the department only a short while, but has proven himself a valuable assistant. He converses fluently in French, German, Italian, Spanish, and translates other languages.

Latin-American Bureau.—The Latin-American department was organized by William E. Curtis, Chief of the Bureau of the American Republics, at Washington, in the summer of 1890, under the direction of the Committee on Foreign Exhibits of the Exposition, of which Mr. William T. Baker was chairman. Through the influence of the latter gentleman an appropriation of \$100,000 was made to promote the interests of the Exposition in the countries of Latin-America, although only a portion of that sum was expended. At the request of Mr. Baker the President of the United States detailed army and navy officers to act as commissioners for the Exposition to the Latin-American countries. Lieut. A. C. Baker, U. S. N., was sent to Mexico; Lieut. George

P. Scriven, U. S. A., and Capt. Gilbert P. Cotton, U. S. A., to Central America. Lieut. H. R. Lemly, U. S. A., to Colombia; Lieut. Roger Welles, Jr., U. S. N., to Venezuela and the Guiana Colonies; Captain Alexander Rodgers, U. S. A., to Brazil; Dr. D. N. Bertolette, U. S. N., to Paraguay, Uruguay and the Argentine Republic; Lieut. C. H. Harlow, U. S. N., to Chile; Lieut. W. E. Safford, U. S. N., to Peru and Bolivia; Willard P. Tisdell, Esq., to Ecuador, and Fred. A. Ober, Esq., to the West Indies. Mr. Tisdell was afterward made a general commissioner to the countries of South America. Mr. E. D. York was appointed as assistant in the office at Washington. These commissioners remained in the countries to which they were assigned, promoting the interests of the Exposition, for a year or more, and then returned to continue their work at Chicago. Upon the organization of the Department of Foreign Affairs the Latin-American Bureau was placed under its jurisdiction, and Lieut. Roger Welles, Jr., was detailed to take charge of the office in Chicago, Mr. Curtis continuing the work in Washington. In the spring of 1893 the Bureau was removed to Chicago. Mr. Ober, the commissioner to the West Indies, in addition to his propaganda in behalf of the Exposition, was instructed to follow the track of Columbus through the West Indies, and the collection of historical relics and antiquities in the Monastery of La Rabida is largely due to his efforts.

Publicity and Promotion.—The chief of this department has several functions. Primarily and in public estimation the department is a press bureau, but it is not simply that. As indicated by the title it involves the general methods of promotion, not only as to the press, but to other accounts. It is divided into two parts: publicity as affected by relation to and through the press, and publicity and promotion as affected through other channels. Advertising through lithographs, pamphlets, books, news slips, the furnishing of news to newspapers and all classes of press associations; also advertising through posters and circulars and other methods. Early in the work letters and news items were sent to newspapers and magazines all over the world containing facts in regard to the Exposition interesting enough to be printed without pay, and that work has been kept up. Beside provision was made for furnishing news of the Exposition to every newspaper of the local press, the Associated Press, United Press, or any paper having a resident correspondent, a room having been specially set apart for that purpose, where each day the news was put on labeled hooks for the respective newspapers and press associations. In another room was kept a general bureau of information of the Exposition. All office supplies, such as stationery, pens, pencils, writing paper, etc., comes through this department. An important branch of the work of this department was entered upon late in January, when regulations for the publication of the official catalogue were promulgated, and the work of collecting the material and preparing it for publication was placed in the chief's hands. Nearly all the kinds of work done in the past will be kept up during the Exposition period. The chief of this department has charge of all arrangements for looking after members of the press. Newspaper headquarters are in the Administration Building. Three floors of the northwest pavilion have been reserved for this purpose. One for the department offices, one for the local press, and one for press associations, foreign newspapers and file rooms. It is impossible to give separate rooms even to the leading newspapers of the country, but desk room is abundant, typewriting machines are at hand, and there are separate rooms for those great newspapers of Chicago and other cities which have regular staffs on duty. In regard to the extension of courtesies to newspaper men the department has recommended that a most liberal policy be adopted. This contemplates the issue of three kinds of tickets of free admission on account of the press; first a complimentary engraved invitation for journalists of distinction and the editors of the great newspapers of the world; second, season or term tickets for men who come here to work; and third, single admissions for transient visitors. It is as much to the interest of the press as of the Exposition that these privileges shall not be abused, and care therefore is taken not to extend such courtesies to any persons not fully accredited and identified. In this department there is a large staff of editorial writers and translators, besides other employés.

Chief Clerk of Publicity and Promotion.—James P. Holland, chief clerk of the department and superintendent of the Bureau of Information, is a journalist, having been connected with the Chicago press for several years. When Major Handy was appointed chief of the department in December, 1891, Mr. Holland was the first member of his staff secured. In the subsequent organization of the department, more especially in regard to the details on which the department had worked, the chief has been assisted materially by the chief clerk. In the early days of the department many of the descriptive news letters which found wide publicity through the press were prepared by Mr. Holland, but as the work of the department developed his time became fully occupied with executive duty in his capacity as chief clerk. During the six months immediately preceding the opening of the Exposition when the work of the department multiplied in every direction, Mr. Holland has had many demands made upon his time. His unflinching courtesy to one and all, in the face of the most trying circumstances, has become proverbial among all departments of the Exposition, and he seems to be looked upon, not only in the light of superintendent of the Bureau of Information but as an encyclopædia of Exposition matters.



HARLOW N. HIGINBOTHAM,
PRESIDENT WORLD'S COLUMBIAN EXPOSITION.

WORLD'S COLUMBIAN EXPOSITION.

The World's Columbian Exposition is a corporation organized and existing under the laws of the State of Illinois (licensed April 9, 1880), its object being "The holding of an International Exposition or World's Fair in the city of Chicago, in the State of Illinois, to commemorate on its four hundredth anniversary the discovery of America." The capital stock of the Exposition is \$10,000,000, of which \$6,000,000 is subscribed, the stockholders numbering over 30,000, nearly all of whom are residents of the city of Chicago.

The government and control of the corporation is vested in a board of forty-five directors, chosen annually at the meeting of the stockholders.

The Act of Congress providing for the Exposition required the corporation to prepare the plans for the Exposition, and the rules and regulations governing rates of entrance, admission fees, and otherwise affecting the rights, privileges and interests of exhibitors or the public, subject to modification by a majority of the members of the World's Columbian Commission.

Under the terms of the act as above mentioned, it has been the province of the corporation to select a site for the Exposition, prepare plans and specifications for the same, construct the buildings and prepare the grounds in a manner suitable for the holding of an International Exposition.

In addition to the above duties, the Board of Directors of the Exposition, under an agreement with the World's Columbian Commission, adopted by both bodies in November, 1890, supplies the necessary funds for carrying on the fifteen great departments under the Director-General, and exercises supervision over said departments with a view to ascertaining that the funds so provided are properly and judiciously expended for the purposes of the Exposition. For the purpose of carrying on its business the Board of Directors elects each year a president, two vice-presidents, secretary, treasurer and auditor, and certain committees, as enumerated below, are appointed by the president.

Commissioners from the States and Territories.—In nearly all cases the State Boards of Commissioners were appointed by the governors in conformity with acts of the legislatures of the respective States. These boards assumed such executive powers and functions as were necessary to secure complete and creditable displays of the various interests of their respective States, by having personal charge of the solicitation, collection, transportation, arrangement and exhibition of the objects sent by associations and individual citizens of the States, such as the natural and industrial products, objects illustrating the history, progress and moral and material welfare and future development. These boards generally are required to make reports of their proceedings and expenditures from time to time to their governors. The commissioners from the Territories are in all cases appointed by the governors, respectively, and their duties and powers are the same as those from the States.

President.—The president of the World's Columbian Exposition is Mr. Harlow N. Higinbotham, one of the members of the firm of Marshall Field & Co. He is the executive officer of the corporation and the active agent for the accomplishment of the purposes for which it was formed. All contracts binding upon the corporation and upon which money is expended from the treasury are executed by him. He is *ex-officio* a member of all committees of the board, and is chairman of its Executive Committee, which exercises all the functions of the Board when the latter is not in session. Mr. Higinbotham is also chairman of the Council of Administration, a body composed of two members of the Board of Directors and two members of the World's Columbian Commission organized for the purpose of concentrating the jurisdiction of both bodies in order to more effectively administer the affairs of the enterprise. (*See Council of Administration.*)

[Harlow Niles Higinbotham was born in Joliet, Ill., Oct. 10, 1838. He attended school in a little log cabin until he began business for himself at the age of twenty, in the crockery line. He came to Chicago in 1860, and entered the employ of Cooley, Farwell & Co., where he remained for a short time. He enlisted in the Morgan Guards at the beginning of the late war, and went through the campaigns in Virginia and Tennessee. Returning after the close of the war he again entered the firm of Cooley & Leiter, which was afterward, Field, Leiter & Co., and now Marshall Field & Co., where he has been ever since, having been admitted to the firm in 1880. Mr. Higinbotham, from the inception of the enterprise was a working member of the two most important committees of the corporation, those on Finance, and Ways and Means. He contributed without stint his time and services when the fortunes of the Exposition were so critical that the committees were required to be in almost continuous session. Mr. Higinbotham's unanimous election as president was followed by his appointment to membership and the chairmanship of the Council of Administration, a body created to be representative of the supreme power vested in both the national commission and the directory of the corporation. The duties of these combined stations demand the constant attention of their incumbent, and that Mr. Higinbotham should give this is a contribution whose value can not be overestimated. His characteristics are clearness of perception, directness of method, steadiness of application, and promptitude in decision. These form an equipment which constitute a model man of affairs, and such is Mr. Higinbotham. His success in life has been the outcome of work and thought, not speculative fortune. The destinies of the Exposition could not be entrusted to a more capable and trustworthy guardian.]

Vice-Presidents.—The first and second vice-presidents are, respectively, Mr. Ferdinand W. Peck and Mr. Robert A. Waller, the former being also the chairman of the Committee on Finance, and the latter a member of the Committee on Ways and Means and of the Insurance Auxiliary Committee, which attends to the placing of insurance upon the Exposition buildings and the exhibits contained therein.

[Ferdinand Wythe Peck, the son of Phillip F. W. and Mary Kent Peck, was born in Chicago in 1848, and is the youngest of seven brothers, three of whom still survive and are known among the foremost in public spirit and enterprise of Chicago's sons. At the time of his birth the Peck mansion and grounds occupied the site now covered by the Grand Pacific Hotel, and the city as those of the present day know it was but a dream of the enthusiast. He was educated in Chicago, graduating successfully from the High School, the Old University, and the Union College of Law, and received his diploma from the latter institution while yet a minor. Mr. Peck was admitted to the bar coincidentally with the attainment of his twenty-first year. He has never engaged actively in the practice of that profession, but in his supervision of large and intricate affairs has found the value of that training which Daniel Webster said was essential to the formation of a man of business. Mr. Peck from his first entrance upon the sphere of manhood has given largely of his time, talents, and influence to the furtherance of measures looking to the development and improvement of his native city. He has been prominently connected with most of the enterprises which have contributed to the renown of Chicago. The magnitude of his private interests has not detained him from active participation in public matters, and the value of his alert mind and untiring energy has been recognized by the community in the frequency with which he has been called to leadership. From the earliest agitation of the project for a Columbian celebration, Mr. Peck has been an indefatigable champion of the scheme, and has labored incessantly to ward the achievement of the results which now challenge the admiration of the world. One of the seven original incorporators of the company upon whose charter the whole superstructure of the Exposition was based, Mr. Peck is now first vice-president of the corporation; also a member, on the part of the directory, of the Board of Reference and Control, and of the Bureau of Admission and Collection; besides exercising the arduous functions of chairman of the Committee on Finance. Among other claims upon his busy life which signify the estimation in which his administrative capacity is held, he is now the incumbent of the following positions:

President of the Chicago Athenæum; president of the Auditorium Association; president of the Chicago Opera Festival Association; trustee of the New Chicago University; vice-president of the Illinois Humane Society; President of the Union League Club. Mr. Peck has also served for four years as a member and vice-president of the Board of Education.

The work which, perhaps, most worthily interprets and emphasizes the ardor and resolution with which Mr. Peck carries his plans to accomplishment, is the vast and magnificent Auditorium building. For while many others contributed moral and financial support to the undertaking, the idea originated with him, and to his persistent labors and dauntless disregard of obstacles the costly structure is a worthy monument.

Mr. Peck has not sacrificed to business, or to the public welfare, his natural taste for domestic and social enjoyments. He was married in 1872 to Miss Tilla, daughter of W. A. Spaulding of Chicago, and has an interesting family of four sons and two daughters. His recreations are found in those refined pleasures which adorn and elevate the home circle, and his love of music is as near a passion as a well-regulated mind permits.]

Secretary.—The Secretary, Mr. Howard O. Edmonds, is the custodian of the records of the board and of its committees and of the corporate seal. He attests all contracts binding the corporation, issues certificates for the paid up shares of the capital stock and the bonds to the amount of \$5,000,000, authorized by the board.

[Howard O. Edmonds, Secretary of the World's Columbian Exposition, is the youngest of the officers of the enterprise. He is a Pennsylvanian by birth, and is twenty-eight years of age. He served four years on the staff of the *Evening-Star*, of Washington, D. C., and was subsequently private secretary to Assistant Postmaster General Whitfield, during the first portion of the Harrison administration. This position he resigned in order to accept a similar one with the Hon. Benjamin Butterworth when the latter became secretary of the World's Columbian Exposition, and in April, 1892, when Mr. Butterworth declined to serve another term as secretary, Mr. Edmonds was elected to succeed him. He has the custody of the records of the corporation, the issue of stock certificates, bonds, etc. Mr. Edmonds is a member of the Illinois bar.]

Assistant Secretary.—The assistant secretary, Samuel A. Crawford, is the secretary of the Committee on Ways and Means, and acts in the absence of the secretary.

These four officers, president, two vice-presidents and secretary, constitute what is known as the Executive Department of the World's Columbian Exposition, the function of which is to carry out and into effect the instructions from the Board of Directors, or the committees thereof, in matters within their jurisdiction.

Treasurer.—The treasurer, Mr. Anthony F. Seeberger, performs the duties incident to the office of treasurer in all corporations. He is required to keep and account for all moneys, funds and other property of the company coming into his hands, which consists of the payments upon stock subscriptions, the proceeds of City of Chicago bonds in aid of the Exposition, the proceeds of Exposition six per cent. debenture bonds, the proceeds of the appropriation of Columbian souvenir half-dollars and the receipts from percentages paid by concessionaires, the receipts from gate admissions, etc. It is estimated that from the organization of the corporation to the



OFFICERS OF THE WORLD'S CONGRESS AUXILIARY.

- | | |
|---|--|
| 1. THOMAS B. BRYAN,
<i>Vice President.</i> | 2. LYMAN J. GAGE,
<i>Treasurer.</i> |
| 3. BENJAMIN BUTTERWORTH,
<i>Secretary.</i> | 4. CHARLES C. BONNEY,
<i>President.</i> |
| | 5. C. E. YOUNG,
<i>Secretary.</i> |



OFFICERS OF BUREAU OF ADMISSIONS AND
COLLECTIONS.

1. JORACE TUCKER,
Supt. of Admissions.
2. PAUL BLACKMAR,
Supt. of Collections.
3. WM. E. CASH,
Asst. Supt. of Collections.
4. WM. E. CASH,
Asst. Supt. of Collections.

LAW DEPARTMENT WORLD'S COLUMBIAN
EXPOSITION.

1. W. H. CARLISLE,
Attorney.
2. JOSEPH CUMMINS,
Attorney.
3. CHAS. H. BALDWIN,
Attorney.
4. CHAS. H. BALDWIN,
Attorney.

close of the Exposition, October 30, 1893, the treasurer will have received in round numbers \$35,000,000 from all sources, and will have paid out for the preparation and operation of the Exposition from \$22,500,000 to \$23,000,000.

Auditor.—The auditor, Mr. William K. Ackerman, has charge of the principal books of account of the company and exercises general supervision over the accounts of the various departments. He is the custodian of the property of the corporation and keeps an inventory of the same and is required to examine, from time to time, the books, papers and accounts of the treasurer.

Executive Committee.—The Executive Committee is composed of the president, vice-presidents, and ex-presidents of the Board of Directors, together with the chairman of each of the standing committees which chairmen are appointed by the president. The Executive Committee meets regularly once a week, and as much oftener as the business of the corporation requires. It has the power to manage and direct the affairs of the company in all matters except as otherwise directed in the by-laws.

STANDING COMMITTEES.

In addition to the Executive Committee the committees of the board are:

Committee on Finance.—Consisting of five members, having jurisdiction in all matters pertaining to the financial management of the company, of accounts, salaries and appropriations.

Committee on Legislation.—Consisting of five members, having jurisdiction in all matters pertaining to Federal, State and municipal legislation, legal matters, arbitration, litigation, and the employment of counsel and solicitors.

Committee on Ways and Means.—Consisting of thirteen members, having charge of raising money through subscriptions to the capital stock, or otherwise, collections due on subscriptions, fixing prices for admission, negotiation of contracts for concessions, privileges, and things pertaining thereto, to deciding upon the scope thereof, subject to the approval of the Board of Directors.

Committee on Grounds and Buildings.—Consisting of seven members.

Committee on Agriculture.—Consisting of five members.

Committee on Mines and Mining.—Consisting of five members.

Committee on Press and Printing.—Consisting of five members.

Committee on Transportation.—Consisting of five members.

Committee on Fine Arts.—Consisting of five members.

Committee on Liberal Arts.—Consisting of five members.

Committee on Electricity, Electrical and Pneumatic Appliances.—Consisting of five members.

Committee on Manufactures and Machinery.—Consisting of five members.

Committee on Foreign Exhibits.—Consisting of five members.

The committees have jurisdiction of such matters as are, from time to time, referred to them by the Board of Directors or the Executive Committee, the object of the creation being to provide the necessary means for exercising proper supervision over the expenditures of moneys of the corporation by the corresponding departments under the Director-General.

Law Department.—The Law Department is composed of an attorney, William K. Carlisle, and two assistant attorneys, George Packard and Charles H. Baldwin, the latter being detailed for duty in the Department of Works upon the grounds. In addition to these, the Committee on Ways and Means has as its attorney, Mr. Joseph Cummins, who prepares all contracts for concessions, etc., and is the legal advisor of said committee in all matters pertaining to the affairs committed to it by the by-laws of the corporation. The Law Department is under the supervision of the Committee on Legislation, the chairman of which, Director Edwin Walker, renders service as the legal advisor of the corporation in matters of weight continually arising in the course of the work. All contracts of the corporation covering the purchase of material, construction operations, or for privileges and concessions during the Exposition period, are supervised by the attorney and receive his approval before being executed by the officers of the corporation.

COUNCIL OF ADMINISTRATION.

The Council of Administration is the center of authority for the administration of the Exposition. This body has absolute and final jurisdiction and control over all matters of general administration of the Exposition and the employment of all agencies necessary thereto, except that it can not expend the moneys of the World's Columbian Exposition in other than such amounts as are specifically appropriated for the use of the council by the Board of Directors or its Executive Committee; nor can it expend any moneys appropriated by Congress on account of the World's Columbian Commission, unless expressly authorized to do so by the Commission or its Board of Control. The Council is composed of two members of the Board of Directors of the World's Columbian Exposition, appointed by said Board, and two members of the Board of Control of the World's Columbian Commission, chosen by that body. The Council of Administration was created by an agreement drawn up by the joint board of Reference and Control of the Commission and Exposition, August 18, 1892, in a conference called for the purpose of providing for the general administration of the Exposition and the installation of exhibits. By the terms of this agreement the Director-General, who is an officer of the World's Columbian Commission, and the Director of Works, who is an officer of the World's Columbian Exposition, together with the entire forces under their control, were placed under and subject to the control and direction of the council. The members of the council are H. N. Higinbotham, Chairman, and Charles H. Schwab for the World's Columbian Exposition, and George V. Massey and J. W. St. Clair for the World's Columbian Commission.

By means of the agreement creating the Council of Administration the powers and duties conferred by law upon the two great organizations connected with the Exposition enterprise were concentrated in this body, and it has control upon the one hand of the great departments organized under the Director-General for dealing with exhibitors and the representatives of foreign nations, and on the other hand of the forces organized under the Director of Works for the physical operation of the Exposition. The council transacts its business mainly through these two officers.

Bureau of Admissions and Collections.—The Bureau of Admissions and Collections was created by a rule adopted by the Board of Directors of the World's Columbian Exposition and approved by the World's Columbian Commission in November, 1892. It consists of the president, treasurer and auditor and the chairman of the Committees on Ways and Means and Finance of the World's Columbian Exposition. The chairman of the Committee on Ways and Means is also the chairman of the bureau.

The work of the bureau is divided into a Department of Admissions, which has charge of the gates, the selling of tickets of admission, the collection of the same and rendering of gate receipts into the treasury; and a Department of Collections, which has charge of the auditing of all concessions within the Exposition grounds and the settlement between concessionaires and the Exposition for the percentages due the latter. The Department of Collections also has charge of the collection of all sums due the Exposition from exhibitors, State World's Fair Boards and others.

Department of Admissions.—This department is under the charge of Mr. Horace Tucker, as superintendent, who appoints all ticket sellers and collectors of tickets at the entrances to the Exposition and at offices located in the city along the lines of railroads and upon the pier at Van Buren street and at the Exposition grounds. He has also the control and issuance of complimentary cards of admission, photographic pass books, passes, etc., and maintains a complete record of all admissions. The service in the Department of Admissions requires in all about 400 men. The ticket sellers and collectors are so organized that three reliefs daily are made, making the service average to each man eight hours per day. The office of the superintendent is located in the grounds of the Exposition, near the Sixty-second street entrance. In addition to the ticket sellers and collectors an organized force has been provided to promptly furnish to the heads of departments the requisite information daily required in the shape of reports. All ticket sellers and collectors are under bond to the department, as well as to the treasurer, for all tickets and money received.

The arrangement of the ticket booths and entrances at all points on the ground are of such a character and number that visitors will not be delayed. Altogether there are 326 turnstiles, 97 ticket-booths, 182 ticket windows and 172 exit gates. At the most conservative estimate the entrances are considered capable of admitting 2,000 people each an hour, which gives a total admission capacity of 500,000 an hour if the attendance could be distributed equally at all the gates. As it is the great crowds concentrated at the most prominent entrances are able to pass as rapidly as the transportation lines can bring them.



GOUNCIL OF ADMINISTRATION WORLD'S COLUMBIAN EXPOSITION.

1. GEO. V. MASSEY,
National Commissioner from Delaware.
2. J. W. ST. CLAIR,
National Commissioner from West Virginia.
3. CHAS. H. SCHWAB,
Director of the Exhibition.
4. H. N. HIGINBOTHAM,
President of the Columbian Exposition.
5. A. W. SAWYER,
Secretary.

The entrance facilities provided are as follows:

ENTRANCES.	Turnstiles.	Ticket Booths.	Ticket Windows.	Exit Gates.
<i>North End.</i>				
Cornell avenue.....	4	2	4	4
Fifty-seventh street.....	18	6	12	6
Fifty-ninth street.....	6	2	4	6
Totals.....	28	10	20	16
<i>South End.</i>				
Sixtieth street.....	12	6	12	6
Sixty-second street.....	10	4	8	6
Sixty-fourth street.....	10	4	8	6
Woodlawn avenue.....	2	1	2	2
Southwest corner park.....	2	1	2	2
Palmer avenue.....	1	1	1	1
Totals.....	37	17	33	23
<i>Midway Plaisance.</i>				
Madison avenue (N).....	2	1	1	1
Woodlawn avenue (N).....	2	1	1	1
Cottage Grove avenue.....	10	6	12	6
Woodlawn avenue (south).....	1	1	1	1
Madison avenue.....	1	1	1	1
Totals.....	16	10	16	10
Terminal station.....	96	13	26	.....
Elevated railroad.....	16	4	8	.....
Intramural.....	.....	4	8	.....
<i>Steamer Landings.</i>				
Casino pier.....	100	10	20	100
Naval pier.....	6	1	2	4
Totals.....	106	11	22	104
Grand totals.....	187	48	91	153

The gate device is a new invention. It is of the ordinary turnstile pattern, except that the ticket dropped into a slot on one side releases the turnstile on the other side of the incomer and registers by an automatic arrangement. The man in charge has no duty except to see that the proper coupon or ticket is dropped. The exits are independent of the entrances and so relieve the crowd around the gates. When the ticket is deposited it is chopped with an automatic cutter that takes three big sections out of one side of the ticket and two out of the other, preventing any further use of the ticket.

Contracts were let for furnishing 35,000,000 admission tickets. Of these 5,000,000 were lithographed, and of such elaborate workmanship that counterfeiting them will be next to impossible. These were designed to meet the advance orders for tickets, and they will be good whenever presented at the gates. The remaining 30,000,000 are simply printed after the style of an ordinary railroad ticket. These tickets are not all alike, and a different style will be used each day. They will be good only on the day on which they are sold, and will not be offered to the public in advance of that day. The entire issue can be changed at any hour of the day if it should be found necessary. Thousands of complimentary cards and passes had to be issued. The list includes the high officials of the government, the diplomatic corps, governors, Exposition commissioners, directors, lady managers, exhibitors, employés, members of the press, etc. Nearly all of the passes have affixed the photograph of the holder to prevent their being transferred.

To facilitate the sale of tickets so that visitors can avoid delay at the gates if they desire, Superintendent Tucker arranged with the principal down-town hotels, merchants, railroad and boat lines to establish branch ticket offices, and tickets are on sale at numerous convenient places.

The passes are composed of coupon-books. The front cover bears the Exposition's corporate title, while below it are inscribed the holder's name, the account for which it is issued, the department to which it is charged, and Mr. Tucker's signature. Inside on the cover is an engraved circle containing the owner's photograph. On the outside of the back cover is a vignette of Columbus, following the design on the souvenir coin. The coupons bear successive dates in heavy black letters, beginning with May 1 and closing with October 30. On each is stamped: "Not good if detached." In addition to those good throughout the season, there are books good for individual months for such as need them for a given month only. Then there are complimentary cards of exceptionally fine design for guests of distinction such as the President of the United States, members of the cabinet, etc. When the owner of a complimentary ticket passes the gate he will drop his individual card in the collector's box, so the turnstile can be opened.

A charge of \$1 is made for each coupon-book issued, to cover the cost of the book and the leather envelope which goes with it. In addition, special badges are issued to exhibitors and their employes, for which a deposit of \$2 is required as a guaranty that the badge will be returned.

Department of Collections.—The Department of Collections has charge of the collection of all moneys which may become due the World's Columbian Exposition on account of privileges or concessions; also the collection of all moneys due from exhibitors and State World's Fair Boards. This department is under the charge of Mr. Paul Blackmar, as superintendent, and Mr. W. E. Cash, assistant superintendent. Contracts for privileges or concessions upon the Exposition grounds number considerably over 200, and include the special attractions located upon Midway Plaisance, such as the German Village, the Irish Villages, the Ferris Wheel, the Libbey Glass Company, the Cycloramas, etc.; also the restaurants located on various parts of the grounds; the Elevated Intramural Electric Railway; steam and electric launches and gondolas upon the lagoons and adjacent waters of the lake; wheel chairs and booths; for the sale of articles of consumption and interesting curiosities, mementoes and souvenirs. The work of this department includes not only the collecting of the percentage of the Exposition Company from concessionaires, but involves the creation of systems to protect concessionaires so that they may receive the full proceeds of all goods sold, protecting them against fraud on the part of customers or their own employes. The department has created ninety-five per cent. of the systems of collection from customers, which is in use upon the grounds. There are about 3,500 stations or places where money is received within the grounds. This department undertakes to supervise or control the receipt of money at all these places, and the accounting for it to the concessionaires, and afterward accounting for the percentage due the Exposition Company from the concessionaires. The employes number nearly five hundred.

Director-General.—For duties and functions of the Director-General and department chiefs under him, see "World's Columbian Commission."

Director of Works.—Daniel H. Burnham, Director of Works, was born in Henderson, N. Y., 1864. In 1855 his parents moved to Chicago, where Mr. Burnham has since lived, with the exception of two years spent in study in the East, and one year which, as a young man, he spent in the activity of camp and mining life in Nevada. Upon his return to Chicago, he at once resumed his architectural studies, forming a partnership with the late John W. Root in 1873, since which time he has been continuously engaged in the practice or his profession. Mr. Burnham's connection with the Exposition commenced shortly after Chicago had been selected as its site, he and Mr. Root working up numerous preliminary plans in the early summer of 1890. September 2d, of the same year, they were appointed as consulting architects, acting jointly, however, in this capacity for but a few weeks, Mr. Burnham having been made chief of construction in October, 1890, and Mr. Root remaining as consulting architect. The plan finally adopted, after much discussion, for the selection of architects to design the buildings of the Exposition, was Mr. Burnham's, and upon him devolved the duty of securing the services of the various men. This very important function having been successfully carried out under the most trying circumstances (for it was during these days which required the most steady hand at the helm that Mr. Burnham lost by death his partner and boyhood friend), further organization of the work proceeded by the formulation of an active working corps. He was most fortunate in his selection of his immediate staff, notwithstanding the fact that the pressure of time did not warrant the deliberation in picking his lieutenants which, under the circumstances would have seemed necessary, but which, as results have shown, could not have been more successful. Mr. Burnham has been called upon since the commencement of his work to assume, by reason of death and resignation, in addition to his other heavy duties, those of Consulting Architect, Chief Engineer and General Manager of the Mechanical and Electrical Work (these being the two greatest plants of their character ever brought into successful operation, throughout the entire work he has sacrificed to the Exposition his own personal interest and given his time almost unreservedly to this work, making his headquarters at Jackson Park in the very heart of the activity. He has been most intimately and directly associated with each of the many problems arising and necessary of solution before the completion of the work was assured. He has had from the beginning of the work, the general charge of the construction of buildings and supervision of the business thereof, the preparation of the grounds and engineering incident to a proper prosecution of the entire work. He has had the supervision of the buildings erected by outside parties and the maintenance of all buildings belonging to the Exposition. He has been required to examine all bids and propositions for work under his control, and to organize bureaus of architecture, engineering, landscape gardening, sanitation; to hire and dismiss all employes in his department, and fix, subject to approval, the compensation for their services. He has the employment (subject to the approval or confirmation of the Council of Administration) and general charge of all the working forces within the grounds of the Exposition necessary to the maintenance of order, the protection of property from fire or other destructive elements, to supply heat, power, light, water and sewerage, the care of the grounds and all service necessary to the practical administration of the Exposition inside the grounds.

Assistant-Director of Works.—Mr. E. R. Graham, the assistant director of works, is the practical representative of the director of works and acts in his absence.

Mechanical Engineer.—Mr. Charles F. Foster, the mechanical engineer, has control of the power plant, which numbers over thirty engines.

Electrical Engineer.—Mr. R. H. Pierce, the electrical engineer, has charge of the entire electrical power on the grounds.



D. H. BURNHAM,
DIRECTOR OF WORKS, WORLD'S COLUMBIAN EXPOSITION.

Secretary of Works.—The secretary of works has charge of records, correspondence, etc., of the Department of Works, and in a general way performs all the duties incident to the office of a secretary.

Landscape Architects.—The advice of the landscape architects was first asked in July, 1890, when the project of the Exposition could be no more exactly defined than by the statement that it was to be of a character generally similar to that of previous World's Fairs, but on a somewhat larger scale than the largest of them had been. Only the purposes and dimensions could be stated of a few of the larger Exposition buildings. From this point the scheme was developed very gradually, additional buildings requiring to be introduced, and buildings early contemplated requiring to be eliminated, from time to time, until within a month of the opening ceremony. Hence it was necessary that the primary plan should have an elastic quality, admitting much adjustment, as the project developed. Such a primary plan was submitted by the landscape architects and adopted by the National Commission in December, 1890. Since that time it has been the duty of the landscape architects, first, to devise adjustments of the primary plan by which it would be fitted to innumerable requirements, as from week to week occasion for them was presented; secondly, to prepare detailed and working plans for carrying out such parts of the general plan as have not come within the functions of the architects, engineers and other technical departments; thirdly, to specify the material and direct the operation required for the carrying out of these plans, more especially those pertaining to the modeling of the surface, the outlining of the terraces and shores; the construction of the roads and walks, and the forming of the plantations and landscape decorations. They have also planned the provisions for boating and for stocking the lagoons with water fowl, and have been in consultation with the architects and engineers in respect to innumerable adjustments of their work to the requirements of the general landscape design.

Director of Decoration.—At the date of his appointment, June 1, 1892, Mr. F. D. Millet found his predecessor had given out by contract the painting and glazing of the buildings already built or in course of construction. After a month or more spent in the study of the roofs and general mechanical painting, he contracted with various persons to paint the buildings, decorate the domes, and for the production of statuary—such as the quadriga for the water-gate; bulls and horses, with attendant men, to occupy the pedestals at the landings of the Grand Court; Neptune for the rostral columns; figures for the Peristyle and for the hemicycle of the Electricity Building, and for the decoration of the galleries of the Fine Arts Building. In October Mr. Millet decided that a painting machine could be used to great advantage in doing the mechanical painting of the interiors, on account of the great amount of rough timber used in the construction, and the great quantity of bridging. After a few experiments, work was begun in the Agricultural Building, by the use of a Turner air-compressor, run by an electric motor. The great saving of time by the use of this machine warranted the acquisition of more of the same kind, and several of these machines were purchased immediately. That Mr. Millet's decision in this respect was a wise one has been proven, inasmuch as the painting of the interiors (the magnitude of which has never been equaled) was completed very much sooner than was expected, and at figures much lower than the closest estimates. The dedicatory ceremonies demoralized the work of this department to a serious degree, because the time in which the decorations had to be made was so short that the entire force had to be detailed for this work and great expense incurred. Early in December, Mr. Millet organized the drapery department, for the manufacture of skylight shades, awnings, flags, banners, etc. In addition to the regular work of the department, the director of decoration superintended the repairing of the roofs of the Exposition buildings. The working force of this department comprises house painters, glaziers, fresco painters, sign painters, machinists, tin-smiths, roofers, engineers, laborers, sailmakers, upholsterers and sewing-women. In the supervision of both decorative and mechanical painting, sculpture work, manufacture of flags, awnings, shades and banners, and also guarding the many pleasing effects he has contrived to bring about, to see that the beauty thereof is not marred by the location of some unimportant structure, or else by a harlequin decoration, the director of decoration finds something with which to busy himself at all times.

General Manager of Transportation.—Shortly after the appointment of Mr. D. H. Burnham, as Chief of Construction, in October, 1890, he organized the Bureau of Railroads with Mr. E. G. Nourse, Engineer of Railroads at its head. The first problem was to lay a railroad track into the grounds, from the Illinois Central Railroad, the only railroad then adjacent to the park. This track was laid across the Midway Plaisance into the southern part of the park where a yard was laid out; into this yard all the construction material was shipped, first over the Illinois Central Railroad alone, and afterward over that and the Baltimore & Ohio Railway, which company laid two tracks up to the south end of the park. Tracks were laid from this yard to each of the large buildings and elsewhere, which tracks were shifted around or taken up and relaid as the exigencies of the case required; in all nineteen miles of such track were laid and 31,371 cars of construction material had come in over these tracks up to April 1, 1893.

The next problem was the consideration of a passenger terminal. This proved a very vexatious problem. Many different solutions were involved by the Bureau of Railroads. Suggestions were made by many railroad officials and other people who took an interest in the matter. Mr. Baker, President of the World's Columbian Exposition, at about this time, December 15, 1891, obtained the services of Mr. W. H. Holcomb, a veteran railroad manager, as his assistant in this matter, and he and Mr. Nourse labored together from this time on. Many conferences were held with the various railroads centering in Chicago. In the meantime the necessity of

enlarging Machinery Hall and the construction of other buildings not at first contemplated largely circumscribed the possibilities of the case, so that finally the present system was settled upon by the parties in interest as the best that could be done under the circumstances. At this time Mr. Holcomb was made General Manager of Transportation under Mr. Burnham, and Mr. Nourse became his assistant.

The next problem was the installation of exhibits. To the Transportation Department was now assigned the duty of unloading the exhibits and placing them on or adjacent to the spaces they occupy in the various buildings.

For the completion of this undertaking certain tracks were laid in and around the buildings. About ten miles only of these tracks could be laid, and already the department has been compelled to suffer the loss of quite a portion of these tracks.

In the meantime the present terminal system was pushed to completion, and the terminal tracks proper were used as team tracks for the unloading of exhibits. There are in the terminal seventeen miles of track, and thirty-five tracks upon which passenger trains can be loaded or unloaded at once. One thousand cars can stand on the tracks of this terminal at one time and be in easy access of teams for unloading. Many wagons and teams were hired and the work of unloading and installing of exhibits proceeded as rapidly as they arrived. This, of course, required an army of men. Warehouses for empty packing cases have been built and to them are transported such empty boxes as exhibitors wish to pay storage on. The terminal yard is fenced in and operated during the Exposition under the direction of the Transportation Department. As the terminal can and probably will be reached by local and excursion trains over every railroad entering in Chicago, the problem is not considered a light one. In addition to this work, the handling of all the supplies for the restaurants and other concessions inside the park are under and by this department. This is mostly night work, but when it is considered that food and drink for a large army or city must be handled daily with the utmost promptness and dispatch, it can readily be seen that this is not the easiest of the various problems entrusted to this department. Then, too, during the Exposition a report must be gotten out. This will be a laborious and necessarily arduous undertaking to render an account of the doings of the department from its inception to the close of the Exposition. But the end is not yet. The buildings and exhibits must be taken down and removed and the park returned as near as can be to its former condition. In this work it is possible that the Transportation Department may take a hand.

Commandant Columbian Guard.—The commandant has control of the Columbian Guard and as such is the conservator of the peace, quiet and dignity at the Exposition.

Chief Engineer.—This official designed the roof trusses, foundations, the timber framing and the iron work of all Exposition buildings, including the arches over the court of the Manufactures and Liberal Arts Building, and the arches of Machinery Hall. He also made drawings of the same; supervised all constructional drawings made by the architectural force; made plans of the bridges, piers, docks and viaducts; examined the constructional and foundation plans of all the State, foreign and concession buildings and structures, and made changes wherever necessary; examined all plans submitted by the exhibitors in cases where it was necessary to cut through the floors, or in any way affect the construction of the buildings. He is responsible for the construction of the buildings, docks, piers, bridges and viaducts, and during the Exposition will look after them as far as their construction is concerned.

Engineer of Grades and Surveys.—This office was created on November 1, 1890, and the engineer was charged with the duty of executing all surveys of grades, the laying out of the plans of the buildings, roads, sewers, water pipes, and other plans which had been designed by the heads of the various departments, and seeing that a perfect record was kept which would involve uniformity in all these various plans. The Department of Surveys and Grades was also charged with preliminary clearing, grading and dredging, which work was completed in the summer of 1890. It has also charge of the maps, atlases and other records of the layout of the Exposition; and further, has charge of the construction and maintenance of the roads, pavements and walks. It employed an average of seventy-five engineers, draughtsmen, rodmen and chainmen, during the period of construction. The duties of the Engineer of Surveys and Grades during the Exposition will be: first, custodian of records showing space and assignments; secondly, preparation and distribution of necessary maps and data; thirdly, care and maintenance of roadway; fourthly, the furnishing of official information drawn from records of his office.

Chief Draftsman.—The Architectural Department, conducted by the chief draftsman, was organized April 1, 1891, and in a short time, a large force of draftsmen were employed in making drawings for the main buildings of the Exposition; the designs having been previously made by the appointed architects for these buildings. The time allowed for this work being so short, and the expediency of getting these numerous buildings under contract so important, every effort was made to get the drawings in condition for the main contracts so that these could be begun, and the work progress on all buildings at the earliest possible moment.

To facilitate the progress of estimating on the buildings there were furnished thirty complete copies of each set of drawings on each building, to enable a large number of contractors to estimate at the same time. After contracts were let, each drawing having been previously approved by the chief engineer, the full size and scale details were then made of every building. This involved more drawings and labor on each building after the letting of the contracts than had been required previously. The force to carry on this work required at the start from forty to as many as seventy draftsmen during the fall of 1891, and probably averaged fifty men throughout the two years of its existence. These draftsmen were constantly consulting and working in



DIRECTOR OF WORKS AND OFFICERS.

2. CHAS. B. ATWOOD,
Designer-in-Chief.
5. E. R. GRAHAM,
Asst. Director of Works.
8. COL. ED RICE,
Commander Col. Guards.
11. WM. S. MCHARG,
Engineer Water Supply.

1. F. L. OLMSTEAD,
Landscape Architect.
4. W. H. HOLCOMB,
Gen'l Mgr. of Transportation.
7. D. H. BURNHAM,
Director of Works.
10. E. C. SHANKLAND,
Chief Engineer.
13. F. D. CLOYS,
Chief Draftsman.

3. F. D. MILLET,
Director of Decoration.
6. M. B. PICKETT,
Secretary of Works.
9. JOHN D. OWENS,
Medical Director.
12. JOHN W. ALVORD,
Engineer Grades and Surveys.



DIRECTOR OF WORKS' OFFICERS.

1. CHAS. F. FOSTER,
Electrical Engineer.
6. E. R. LORING,
Supt. Plumbing.
7. E. G. NOURSE,
Asst. Gen. Mgr. Transportation.
12. MAX YOUNG,
Supt. Machinery Hall and Colonnade.

2. E. D. ALLEN,
Supt. Painting.
5. G. H. BRINKLEY,
Asst. Eng. Surveys and Grades.
8. A. C. SPEED,
Supt. Electricity Building.
11. W. E. BROWN,
Supt. Transportation Building.

3. R. H. PIERCE,
Electrical Engineer.
4. E. W. MURPHY,
Fire Marshal.
9. J. K. FREITAG,
Building Superintendent.
10. J. MULCAHY,
Purchasing Agent.

connection with the engineers in the department of the chief engineer, the labors of these two departments being of such a nature that the one could not proceed without the harmonious co-operation of the other. Besides making all necessary drawings for each building, with the exception of the trusses, etc., before letting contracts, careful and accurate specifications were made of each particular contract, specifying in detail, material and manner of construction, and giving the time for the completion of the contract. Besides preparing drawings and specifications for the letting of contracts on these buildings, it is the duty of this department to make a final acceptance of all these contracts, which means a checking up of all specifications and work at the buildings, after having been delivered by the contractor to the construction department. It is expected that this force will be materially reduced, as most of the work required after the opening of the Exposition is in checking over contracts, carefully filing existing drawings, and making a record set of drawings of each building, showing completely, all modifications which have been made in the plans from the first beginning. While the force of this department has been greatly diminished during the last three or four months, it has been done by transferring the draftsmen from time to time to the various offices of the chiefs of the different buildings, as they were required for the purpose of laying out drawings for the installation of exhibits, directly under the charge of the chief of each building.

Medical Director.—The duties of the medical director from the time of the establishment of the position were: To organize a medical bureau having jurisdiction over all cases of personal injury occurring in the line of duty, and such other cases as the Exposition Company may be responsible for, or which in its judgment should be cared for; also all sanitary and hygienic matters connected with the grounds and buildings and all matters pertaining to the health and physical well-being of the construction forces and the employes who are engaged in the conduct of the Exposition.

He is required to keep such records and data regarding his bureau as will enable him to make monthly reports to the Committee on Grounds and Buildings, and a final report after the close of the Exposition, of the work of his bureau. The office of the Medical Bureau was opened June 1, 1891. The periods were, for the sake of convenience and statistics, divided into the pre-Exposition period, the Exposition period, and the post-Exposition period. The bureau had 54,024 cases to April 1st; 2,860 of these being surgical, 2,164 medical.

Upon the medical director during the Exposition will devolve the care of the sick and injured visitors, of the resident population and of the employes upon the grounds; regulation of sanitary matters; inspection of grounds and buildings, etc. The Emergency Hospital is in one portion of the Service Building, and comprises one-fourth of the building.

The hospital contains, on the first floor, the following: Two wards, of ten beds each, for men; one ward of ten and another of three beds for women; medical director's office; resident physician's office; office of the superintendent of nurses; diet kitchen; drug room; linen and clothes closets; two examining and operating rooms and closets; reception room and two waiting rooms—one for men and one for women.

On the second floor are the dormitories for nurses and physicians.

No patient will be permitted to remain in this hospital over night. It is essentially an Emergency Hospital.

On account of the extent of the grounds, it was necessary to establish two sub-stations, or sub-hospitals, each of three or four beds for males and the same number for females. One of these is located at the east end of Midway Plaisance, and another east of Guard Station No. 7, between Machinery Hall and the Terminal railway station.

There are four ambulances. Two are stationed near the Emergency Hospital and one contiguous to each of the sub-stations. In addition, fifty invalid chairs are used for the transportation of the sick to boat, sub-station or hospital. A trained ambulance corps and a physician is detailed for each ambulance.

An electric launch, to patrol the lagoon, is in the service of the Medical Bureau. It performs the function of an ambulance, as well as that of a sub-station, or sub-hospital.

In the Emergency Hospital there are two resident physicians, a corps of attending physicians, hospital steward, orderlies for stretcher work, and druggists. There are also a superintendent of nurses, a surgical nurse, and a corps of trained nurses in addition, for the hospital. There are trained nurses and attending physicians at the sub-stations, and also upon the electric launch. One hundred and fifty stretchers are apportioned to the various buildings as follows: Manufactures Building, 32; Woman's Building, 10; Horticultural Building, 9; Fisheries Building, 6; Art Gallery, 20; Agricultural Building, 24; Forestry Building, 2; Dairy Building, 1; Stock Pavilion, 2; Mining Building, 8; Electricity Building, 8; Transportation Exhibits Building, 17; Bonded Warehouses, 2; Packing Case Buildings, 2; Saw Mill, 2; Music Hall, 4; Recital Hall, 1.

The steam launch takes patients from any landing. The chief landing for this launch is at the north end of the Transportation Exhibits Building, close to the Emergency Hospital, to which patients will be conveyed by invalid chairs, or by hand litters, when necessary.

Upon the flag of this department is seen, in the center, the Geneva cross and the words "Medical Bureau." It marks sub-stations, Emergency Hospital, and indicates the hospital or ambulance boat. The badge worn by the physicians consists of the Geneva cross, containing in its center a disc, in which is a countersunk panel showing in raised design the lettering "World's Columbian Exposition, Medical Bureau," and in the center is the symbol of Hygeia. Interwoven and forming a wreath inside the points of the cross are, in raised relief, poppy heads. The central circular portion of the badge and poppies are silvered. The badge of the medical director

has a gold center, the circumference of which is of blue enamel, which, with the silvered poppies and the sealing-wax red of the Geneva cross, make the national colors, red, white and blue. The badge is also upon the sides of the ambulances and the boat. The nurse's badge is the same as that of the attending physicians, minus the poppy heads. All other attachés of the Medical Bureau wear the central circular portion of the badge, silvered, without cross and without poppies.

All of the physicians are educated and experienced men, selected on account of their fitness for the position which they occupy.

The function of the bureau is to minister to the sick and the injured upon the grounds; to look after sanitary matters, etc.

This hospital is in no sense an exhibit, but its corps of workers will doubtless be actively engaged in caring for those who require its services.

The physicians are clothed in navy blue uniform; all others in gray, trimmed with green. The nurses wear the uniforms of their schools, respectively.

At the close of the gates, or before, patients who are dangerously hurt or seriously ill will be removed to their residences, boarding houses, to a hospital, or referred to outside physicians.

Sub-stations, hospital and launch have telephone connections. The service is free.



MEMBERS OF THE BOARD OF LADY MANAGERS.

- | | | |
|--|---|--|
| 1. MRS. RICHARD J. OGLESBY,
<i>Illinois.</i> | 2. MRS. FRANCES WELLES SHEPARD,
<i>Illinois.</i> | 3. MISS WILHELMINE REITZ,
<i>Indiana.</i> |
| 4. MRS. JONAS H. FRENCH,
<i>Massachusetts.</i> | 5. MRS. RUFUS S. FROST,
<i>Massachusetts.</i> | 4. MRS. VIRGINIA C. MEREDITH,
<i>Indiana.</i> |
| 7. MRS. MARY A. HART,
<i>Ohio.</i> | 6. MRS. WALTER HARTPENCE,
<i>Ohio.</i> | 7. MRS. F. H. HARRISON,
<i>Wyoming.</i> |
| 12. MRS. I. J. AUSTIN,
<i>Alaska.</i> | 11. MRS. A. K. DELANEY,
<i>Alaska.</i> | 10. MRS. FRANCES E. HALL,
<i>Wyoming.</i> |
| 13. MRS. MARIE P. HARMON BEESON,
<i>Oklahoma.</i> | 14. MRS. GENEVIEVE GUTHRIE,
<i>Oklahoma.</i> | 15. MRS. JNO. A. LOGAN,
<i>District Columbia.</i> |



MEMBERS OF THE BOARD OF LADY MANAGERS.

- | | | |
|---|--|--|
| 1. MRS. MARY KINDER,
<i>Delaware.</i> | 2. MRS. J. FRANK BALL,
<i>Delaware.</i> | 3. MRS. ELIZA J. P. HOWES,
<i>Michigan.</i> |
| 4. MRS. CLARA L. MCADOW,
<i>Montana.</i> | 5. MRS. J. ELIZA RICKARDS,
<i>Montana.</i> | 4. MRS. SARAH S. C. A. WILL ,
<i>Michigan.</i> |
| 7. MRS. S. W. McLAUGHLIN,
<i>North Dakota.</i> | 8. MRS. W. B. McCONNELL,
<i>North Dakota.</i> | 9. MRS. JNO. R. WILSON,
<i>South Dakota.</i> |
| 12. MRS. MARY A. COCHRAN,
<i>Texas.</i> | 11. MRS. IDA LOVING TURNER,
<i>Texas.</i> | 10. MRS. H. M. BARKER,
<i>South Dakota.</i> |
| 13. MRS. JNO. S. WISE,
<i>Virginia.</i> | 14. MRS. K. S. G. PAUL,
<i>Virginia.</i> | 15. MRS. E. C. LANGWORTHY,
<i>Nebraska.</i> |

BOARD OF LADY MANAGERS.

President, Mrs. Potter Palmer, Chicago; First Vice-President, Mrs. Ralph Trautmann, New York; Second Vice-President, Mrs. Edwin C. Burleigh, Maine; Third Vice-President, Mrs. Charles Price, North Carolina; Fourth Vice-President, Miss Katherine L. Minor, Louisiana; Fifth Vice-President, Mrs. Beriah Wilkins, District of Columbia; Sixth Vice-President, Mrs. M. D. Thatcher, Colorado; Seventh Vice-President, Mrs. Flora Beall Ginty, Wisconsin; Eighth Vice-President, Mrs. Margaret Blaine, Salisbury, Utah; Vice-President-at-Large, Mrs. Russell B. Harrison, Montana; Vice-Chairman Executive Committee, Mrs. Virginia C. Meredith, Indiana; Secretary, Mrs. Susan G. Cooke, Tennessee.

Nominated by Commissioners-at-Large.—Mrs. D. F. Verdenal, 182 West 80th St., New York; Mrs. Mary Cecil Cantrill, Georgetown, Ky.; Mrs. Mary S. Lockwood, 812 12th St., Washington, D. C.; Mrs. John J. Bagley, Detroit, Mich.; Miss Ellen A. Ford, 252 Broadway, New York; Mrs. Mary S. Harrison, Helena, Mont.; Mrs. Ida A. Elkins Tyler, Bullitt Bldg., Philadelphia, Pa.; Mrs. Rosine Ryan, Austin, Texas. Alternates—Mrs. Ben C. Truman, Los Angeles, Cal.; Mrs. Nancy Huston Banks, Morganfield, Ky.; Mrs. James B. Stone, Worcester, Mass.; Mrs. Schuyler Colfax, South Bend, Ind.; Mrs. Helen A. Peck, 3100 Troost Ave., Kansas City, Mo.; Miss Caroline E. Dennis, Auburn, N. Y.; Mrs. George R. Yarrow, 2213 Green St., Philadelphia, Pa.; Mrs. Caroline Willis Ladd, Galveston, Texas.

By Commissioners from the District of Columbia.—Mrs. John A. Logan, Washington; Mrs. Emma D. Powell, Washington. Alternates—Mrs. Beriah Wilkins, Washington; Miss Emma C. Wimsatt, Washington.

[For the names of members and alternates from the States and Territories, see "State and Territorial Buildings and Officials."]

The Act of Congress creating the World's Columbian Commission, authorized and required the appointment of a Board of Lady Managers. The Board consists of two women from each State and Territory and the District of Columbia, nominated by Commissioners from the several States and Territories and the District of Columbia, and of one woman, nominated by each of the Commissioners-at-large and appointed by the President, and also nine women of the city of Chicago appointed by the President, and a like number of alternates, appointed in the same manner as the principals, and who assume the duties and functions of such principals only when the principals are unable to attend.

Each member of the Board is entitled to receive \$6 per day for each day necessarily absent from home engaged in the work of the Board, and also the expenses for transportation actually incurred by her on that account. The alternates receive no compensation nor expenses for transportation, except in cases where their principals are unable to attend to the duties assigned to them.

In accordance with resolutions of the Executive Committee of the World's Columbian Commission, adopted October 21, 1890, authorizing the organization of the Board of Lady Managers, "And said Commission is authorized and required to appoint a Board of Lady Managers of such number and to perform such duties as may be prescribed by said Commission. Said Board may appoint one or more members of all committees authorized to award prizes for exhibits which may be produced in whole or in part by female labor," President T. W. Palmer and Secretary John T. Dickinson were requested to make arrangements to secure a suitable hall in which the Board could hold its meetings. It was further requested that President Palmer call the Board to order at 12 o'clock M., November 19, 1890, and preside until they elected a chairman and secretary, and that Secretary Dickinson officiate as secretary. This first meeting was held at Kinsley's Hall at which members were present from the several States and Territories. The Hon. T. W. Palmer addressed the assemblage and his words of cheer were graciously received. Before each member of the Board had received her commission, President Palmer said, among other things: "These parchment commissions which have been bestowed upon you may well serve in the better days to come as titles of a nobility as far beyond what has passed for nobility in half-developed society as the future shall be beyond the ages when hereditary titles arose. That your chil-

dren's children, to many generations, should cite their descent from Lady Managers of an Exposition which served as a mile-stone to mark the world's grandest and swiftest progress, lies in your hands and brains to-day. All that American women ever lacked—opportunity—is here, and from every State and Territory the women of the hour are here to take advantage thereof. It needs no gift of prophecy to enable one to predict that the future will justify the wisdom of the creation of your Board, and the selection of its individual members."

Secretary Dickinson delivered to each member of the Board and alternate present the certificates of the Commission, and the Board of Lady Managers was thus launched upon the sea of self-reliance. Temporary organization was effected by the unanimous election of Mrs. William Felton of Georgia, as Chairman, and Miss Cora D. Payne of Kentucky, as Secretary.

On the second day Mrs. Potter Palmer of Chicago was unanimously elected President of the Board, and Miss Phoebe Cousins of Missouri, Secretary. Subsequently, the office of Secretary having become vacant, Mrs. Susan Gale Cooke of Tennessee was, on September 2, 1891, elected to fill the position.

By the resolutions adopted by the World's Columbian Commission at the session of April, 1891, the powers and duties of the Board of Lady Managers were defined, in which the Board was "directed and empowered to appoint one or more members of all committees authorized to award prizes for exhibits which may be produced in whole or in part by female labor; and the number of such women members so to be appointed shall be in proportion to the percentage of female labor performed in the production of such exhibits." The Board was given the management and control of the Woman's Building. The Board was given general charge and management of all the interests of women in the Exposition.

Encompassed and on all sides by luxuriant shrubs and beds of fragrant flowers, like a white silhouette against a background of old and stately oaks, is seen the Woman's Building, situated in the northwestern part of the grounds, separated by a generous distance from the Horticultural Building on the one side and the Illinois State Building on the other, and facing the great lagoon with the Flowery Island as a vista. Among a great number of sketches submitted in competition for this building by women from all over the land, the President of the Board of Lady Managers, Mrs. Potter Palmer, discovered in the sketch submitted by Miss Sophia G. Hayden, that harmony of grouping and gracefulness of detail which indicate the architectural scholar, and to her was awarded the first prize of a thousand dollars, and also the execution of the design. The second and third prizes were given respectively to Miss Lois L. Howe, of Boston, and Miss Laura Hayes, of Chicago.

Directly in front of the building the lagoon takes the form of a bay, about 400 feet in width. From the center of this bay a grand landing and stair case leads to a terrace six feet above the water. Crossing this terrace other staircases give access to the ground, four feet above, on which, about 100 feet back, the building is situated. The first terrace is designed in artistic flower beds and low shrubs, forming, together with the creamy-white balustrades rising from the water's edge, and also in front of the second terrace, a charming foreground for the fine edifice. The principal façade has an extreme length of 400 feet, the depth of the building being half this distance. Italian renaissance is the style selected. The main grouping consists of a center pavilion flanked at each end with corner pavilions connected in the first story by open arcades in the curtains, forming a shady promenade the whole length of the structure. The first story is raised about ten feet from the ground line, and a wide staircase leads to the center pavilion. This pavilion, forming the main triple-arched entrance with an open colonnade in the second story is finished with a low and beautifully proportioned pediment enriched with a highly elaborate bas-relief. The corner pavilions, being like the rest of the building, two stories high, with a total elevation of 60 feet, have each an open colonnade added above the main cornice.



MEMBERS OF THE BOARD OF LADY MANAGERS.

1. MRS. H. T. HUNDLEY,
Alabama.
4. MRS. ROLLIN A. EDGERTON,
Arkansas.
7. MRS. FRANCIS S. IVES,
Connecticut.
10. MRS. ORA E. MILLER,
Iowa.
13. MRS. FRANCIS B. CLARKE,
Minnesota.

2. MRS. ANNA M. FOSDICK,
Alabama.
5. MRS. R. J. COLEMAN,
Colorado.
8. MRS. ISABELLA B. HOOKER,
Connecticut.
11. MRS. E. C. BURLEIGH,
Maine.
14. MRS. H. F. BROWN,
Minnesota.

3. MRS. JAMES P. EAGLE,
Arkansas.
6. MRS. SUSAN R. ASHLEY,
Colorado.
9. MRS. WHITING S. CLARK,
Iowa.
12. MRS. L. M. N. STEVENS,
Maine.
15. MRS. JOHN S. BRIGG,
Nebraska.



MEMBERS OF THE BOARD OF LADY MANAGERS.

1. MRS. EDWARD L. BARTLETT,
New Mexico.
6. MRS. A. C. JACKSON,
Kentucky.
7. MRS. ANNA E. M. FARNUM,
Idaho.
12. MRS. MARY E. MCCANDLESS,
Pennsylvania.
13. MISS MARY E. BUSSELLE,
New Jersey.

2. MRS. THOS. A. WHELAN,
Utah.
5. MRS. JENNIE S. MITCHELL,
Kansas.
8. MRS. MARY C. BELL,
Florida.
11. MRS. E. W. ALLEN,
Oregon.
14. MRS. M. D. FOLEY,
Nevada.

3. MRS. T. J. BUTLER,
Arizona.
4. MRS. ALEX. THOMSON,
Maryland.
9. MRS. CHAS. H. OLMSTEAD,
Georgia.
10. MRS. PARTHENIA P. RUE,
California.
15. MISS CHARLOTTE FIELD DAILEY,
Rhode Island.

Here are located the Hanging Gardens, and also the committee-rooms of the Board of Lady Managers. A lobby 40 feet wide leads into the open rotunda, 70 x 65 feet, reaching through the height of the building and protected by a richly ornamented skylight. This rotunda is surrounded by a two-story open arcade, as delicate and chaste in design as the exterior, the whole having a thoroughly Italian court-yard effect, admitting abundance of light to all rooms facing this interior space.

In the second story, above the main entrance and curtains, are located ladies' parlors, committee-rooms and dressing-rooms, all leading to the open balcony in front, and commanding a splendid panorama of almost the entire ground. The whole second floor of the north pavilion incloses the great assembly-room and club-room. The first of these is provided with an elevated stage for the accommodation of speakers. The south pavilion contains the model kitchen, refreshment rooms, reception-rooms, etc.

CONCERTS.—It is proposed to give semi-monthly concerts in the Woman's Building during the six months of the Exposition, at which only women or girls who are amateurs, possessed of talent and a high order of musical ability, and who have been residents of America for at least ten years, will be permitted to appear. The qualifications are first tested and approved by a jury selected by the Woman's National Committee on Music and satisfactory to Theodore Thomas, Musical Director of the Exposition. No musical prodigy is admitted simply as such, nor is the diploma of any College or Conservatory either necessary or sufficient. Each candidate is rated upon her merits, technical proficiency not alone being considered.

The concerts are intended to provide a public appearance for those amateurs of distinction who are shut out from the concert room of the professional, and who, for various reasons, would not wish to appear therein. Quartettes, trios, either vocal or instrumental, choral and orchestral organizations of women are to be heard.

SALE OF EXHIBITS.—The Decorative Art Societies, Woman's Exchanges, Industrial and Educational Unions, (which are called the Bureau of Applied Arts from the different States) and individuals are allowed to sell by samples. No articles are sold for removal previous to the close of the Exposition, unless a "concession" for the same has been granted by the Committee on Ways and Means. "Concessions" refer to the sale of all goods from which the securing of revenue is the object of the lessees.

Each society or individual exhibiting or selling their work pays their proportion of the expenses of cases, clerks, saleswomen, etc. To provide for these expenses, 20 per cent. is charged on all sales where the saleswomen are provided by the Management; 5 per cent. of this is paid to the Ways and Means Committee for "concessions," and 15 per cent. is reserved as a fund out of which all salaries and other expenses attending the sale of articles in the salesrooms in the Woman's Building is paid.

THE CHILDREN'S BUILDING.—Under the immediate auspices of the Board of Lady Managers is the Children's Building. This is primarily an educational exhibit. A model crèche is shown demonstrating in a large, light and airy room the most healthful, comfortable, and rational system of dressing and caring for young children. Short lectures are given upon their food, clothing, and sleeping arrangements, and in connection with the crèche is an exhibition of infants' clothing of all nations and times, their cradles, and other furniture. As the child grows and its mental faculties develop, the kindergarten succeeds the crèche. This department of child-life is demonstrated in the most complete manner by the International Kindergarten Association. The kindergarten under their management is fitted up in the most attractive manner. All the latest apparatus necessary to the best exposition of the work is provided. Closely allied to the kindergarten is the kitchengarden, where classes of little folks are taught the useful arts of homekeeping. In so interesting and delightful a manner are sweep-



MEMBERS OF THE BOARD OF LADY MANAGERS.

- | | | |
|---|---|--|
| 1. MRS. BERAH WILKINS,
<i>District Columbia.</i> | 2. MISS KATHARINE L. MINOR,
<i>Louisiana.</i> | 3. MRS. B. A. PERKINS,
<i>Louisiana.</i> |
| 4. MRS. MYRA B. F. LADD,
<i>New Hampshire.</i> | 5. MRS. J. M. STONE,
<i>Mississippi.</i> | 4. MRS. JAS. W. LEE,
<i>Mississippi.</i> |
| 7. MRS. DANIEL HALL,
<i>New Hampshire.</i> | 8. MRS. RALPH TRAUTMAN,
<i>New York.</i> | 6. MRS. W. C. WHITNEY,
<i>New York.</i> |
| 11. MISS F. CUNNINGHAM,
<i>South Carolina.</i> | 11. MRS. CHAS. PRICE,
<i>North Carolina.</i> | 10. MRS. FLORENCE H. KIDDET,
<i>North Carolina.</i> |
| 13. MRS. ELLERY M. BRAYTON,
<i>South Carolina.</i> | 14. MRS. MELISSA D. OWINGS,
<i>Washington.</i> | 10. MRS. ALICE HOUGHTON,
<i>Washington.</i> |



GROUP OF ALTERNATES BOARD OF LADY MANAGERS.

1. MRS. FRANK H. DANIELL.
6. SUSAN W. BALL,
7. MRS. CARRINGTON MASON.
12. LENA A. BATES.
13. FRANCIS P. BURROWES.

2. MRS. J. H. HAYNES,
Kansas.
5. THERESA J. COCKRAN.
8. ANNIE L. Y. ORFF.
11. ISABELLA L. CANDEE.
14. MRS. ALICE B. CASTLEMAN.

3. MRS. THEO. F. ARMSTRONG.
4. MRS. CLARK WARING.
9. MRS. PATTIE MOORE.
10. MARY B. HANCOCK,
15. MRS. IRA Z. HENDRICKS.

ing, dusting, bedmaking, and cooking taught, that what might otherwise be an irksome task to children becomes a most delightful recreation.

For older children is a sloyd, where wood-carving is exhibited. Physical development is illustrated by the North American Turner-Bund. Here many a lad is inspired to seek after that physical perfection that was the pride of the Greeks and Romans. A library containing a full supply of children's literature has been provided. In it are found the books of all lands, and in all languages, their newspapers, periodicals, etc.

Pennsylvania has equipped a department in the Children's Building showing the wonderful progress that has been made in teaching young deaf mutes to speak. Miss Mary Garrett, secretary of the Home for Teaching Deaf Mutes to speak, is in charge of this department. Daily demonstrations are given.

A department of Public Comfort in connection with the Children's Building, is conducted especially for the benefit of children. Infants and small children are received and placed in the care of competent nurses, who provide for all their wants while their mothers are visiting the various departments of the Exposition.

For the amusement of visiting children there is a large playground on the roof; this is inclosed with a strong wire netting, so the children will be perfectly safe. The playground is very attractive, ornamented with vines and flowers. Within the inclosure butterflies and birds flit about unconfined. Here, under cover, are exhibited toys of all nations, from the rude playthings of Esquimaux children to the wonderful toys which at once instruct and amuse. These toys are used to entertain the children.

The building has an assembly-room, containing rows of little chairs, and a platform from which stereopticon lectures are given to the older boys and girls, about foreign countries, their languages, manners, and customs, and important facts connected with their history.

In the Woman's Building will be found a well filled library of printed works and original manuscripts in many languages, by women writers.

The work of the Board for the past two years has been prosecuted with the utmost harmony and good feeling, and the purposes have been admirably carried out. It marks the first participation of women in an important national enterprise, and has prepared an object lesson to show the progress women have made in many countries of the world, exhibiting the increased usefulness that has resulted from the enlargement of their opportunities. Representative collections have been made from the States and Territories and from such foreign countries, for instance, as England, France, Italy, Germany, Austria, Russia, Belgium, Holland, Sweden, Norway, Greece, Denmark, Siam, Japan, Algeria, Cape Colony, Cuba, Mexico, Nicaragua, the Argentine Republic, Jamaica, Ceylon, Brazil, Spain, Colombia, Ecuador, Venezuela, Panama and the Sandwich Islands. These give an adequate idea of the extent and value of what is being done by women in the arts, sciences and industries. In the general buildings, where the competitive exhibits are placed, the exhibit of women's work from that of men is not separated, for the reason that, as women are working side by side with men in the industries of the world, it would have been practically impossible, in most cases, to divide the finished result of their combined work; nor would women be satisfied with prizes unless they were awarded without distinction as to sex and as the result of fair competition with the best work shown. The Board is striving for excellence, and desires recognition only for demonstrated merit. In order, however, that the enormous amount of work being done by women may be appreciated, a statement has been procured and shown with every exhibit, stating the proportion of woman's work that enters into it.

Many new avenues of employment are thus shown to women breadwinners. The most brilliant achievements of women from every country and in every line of work are shown in the exhibits of household economics, needlework, drawing, etching, painting, pottery sculpture, carving in wood or ivory, her

work in all decorative arts, manufactures, inventions and other articles of her production; proofs of her work in the professions, in journalism and the making of books, in musical and dramatic art, in religious, literary and scientific societies, in the organization and management of temperance, hygienic and other reformatory work, as well as the art of cooking and the preparation of food, including the grinding of grain and the making of bread; the curing of skins and furs and the shaping of them into garments; the invention and use of needles and the twisting of various fibers into threads for sewing and knitting; the weaving of textile fabrics; the use of vegetable dyes; the art of basket-making; the modeling of clay into jars and vases for domestic use, and also their ornamentation and decoration. Besides the National Board of Lady Managers, several of the States and Territories have their own boards of women, who look after women's work in their own respective domains, but all co-operating with the National Board.

[Mrs. Potter Palmer, before her marriage, had acquired fame as the beautiful Bertha Honore. She was born in Louisville, Ky., her father being of French descent and her mother belonging to one of the oldest and most aristocratic Southern families. Her childhood and early girlhood were spent in Louisville, and there also her education was begun. According to an old Southern custom, her education was finished in a convent, the one selected being near Baltimore, Md. From the quiet of the convent Miss Honore stepped into a field of conquest. Her mental acquirements and inherited grace and refinement soon gave her an enviable position in society. In 1871 she married Potter Palmer, one of Chicago's representative and wealthy citizens, and has since then resided in Chicago. She has traveled much, and has a wide acquaintance among both the wise and fashionable people of two continents. Her contributions to city and state charities, while large, are surpassed by the good she privately does. Mrs. Potter Palmer is well calculated to adorn and fill the office which she now occupies, and her known energy, combined with her acknowledged executive ability, presaged that the Board of Lady Managers, under her guidance, will more than accomplish all that the National Commission has seen fit to place in their charge. And all expectations in that respect have been more than fulfilled. Under her administration the woman's department has attained proportions which form one of the most wonderful developments of the Exposition.]



MRS. POTTER PALMER,
PRESIDENT BOARD OF LADY MANAGERS.

BUREAU OF PUBLIC COMFORT.

THIS bureau was established by the Directors of the Exposition for the purpose of contributing, as far as possible, to the convenience and comfort of visitors. In several of the large buildings located in different parts of the grounds are spacious reception and waiting rooms, parlors for ladies and children—all comfortably furnished, for the enjoyment of visitors. The bureau has provided lavatories and retiring rooms, polite attendants and all necessary means for constituting an attractive headquarters for the people—desirable resorts and resting places *free of charge* to visitors. Maintained in connection with these rooms, for the use of visitors, at moderate charges, are parcel rooms for checking and care of coats, wraps, bundles, handbags, etc.; barber shops and boot-blackening; a good service of lunch counters and lunch tables; also stands for the sale of newspapers, reading matter, stationery and postage stamps, toilet articles and other items of common every-day need. Attendants are stationed in each reception room, to reply, as far as possible, to all inquiries for general or local information. Registers for visitors are maintained, in which those desiring may enter their names, home and temporary address *without charge*. The provision for convenience of visitors also embrace telegraph office, telephone office, messenger service, stenographers and typewriters. The central idea has been to furnish suitable *free* accommodations within the Exposition Grounds, where all are welcome to rest from the fatigues of sight-seeing, and to cater to the personal needs of visitors, at moderate cost.

For some time previous to the opening of the Exposition the Bureau maintained (and now continues) a hotel and rooming department through which it co-operates with the citizens and householders of Chicago and vicinity in securing suitable and desirable lodging accommodations at fair and reasonable rates for expected visitors. The city has been subdivided into districts and sections, and an official register prepared, in which parties having furnished rooms to let may have them listed, under a contract with this department, giving full description and prices thereof, the rooms being always first subjected to *inspection*.

Under this landlord's contract these rooms are placed in the hands of the department for rental, at the prices named by the landlord, with authority to let the same, or any of them, from day to day, or longer, and to collect the rent therefor *in advance*, in the name of said landlord; and upon receipt thereof to issue to the lessee or prospective tenant a rental certificate, which secures to the holder of said certificate, the rooms engaged for the term and date selected.

There is no ground for rumors which may be circulated that visitors to the Fair are made the victims of exorbitant charges. Competition is so extensive and sharp as to prevent it. One who climbs to the top of one of the Exposition buildings and surveys the territory lying to the north, west and south of Jackson park can easily believe this statement. There, and indeed in all parts of the city, the amount of building recently completed and now under way is simply astonishing. Hundreds of structures to meet World's Fair demands have been erected within the past few months. Some of the new hotels are large enough to accommodate several thousand guests each, and living accommodations for not less than 300,000 strangers have been provided for immediately contiguous to the Exposition, to say nothing of the numerous hotels, boarding houses, lodging houses, restaurants and cafés in every part of the city and suburbs.

The Chicago summers are known far and wide as successful rivals of those of many of the pretentious resorts in mountain and at seaside. The temperature in summer is invariably cool, and a conspicuous blessing are the delightfully cool nights. If the weather is ever unpleasantly warm it lasts at most only a few hours, a cool breeze from the lake invariably dissipating it. The certainty that hot weather does not prevail for any length of time is a most advantageous feature.

An abundance of drinking water, the best supplied to any great city in the world, is provided free to all. The water is either filtered or sterilized. The process of sterilization is accomplished by boiling the water. Months ago the Exposition company made a contract for something less than 3,000 drinking fountains. The fountains have each four faucets, so that 12,000 people may drink at the same time. These fountains are distributed all over the grounds. Ample provisions for seating is made without charge. About 1,500 toilet rooms and closets are located at convenient points in the buildings and about the grounds and they are absolutely free to the public. This is as large a number in proportion to the estimated attendance as has ever been provided in any Exposition. In addition to these there are also nearly an equal number of lavatories and toilet rooms of a costly and handsome character as exhibits, for the use of which a charge of five cents is made. Free medical and emergency hospital service is provided on the grounds by the Exposition management. Imposition or extortion of any description will not be tolerated. A special building for the use of the Bureau will be found at the north end of the park. At the south end, in the Terminal Railway station, the bureau has been given a great number of rooms in which are furnished free accommodations. At the southeast corner of the park, in the Casino Building, more room has been reserved for the same bureau. In each of these buildings are cheap lunch counters, checking-rooms, etc., and tables where those who feel so inclined may sit and eat the luncheon which they bring to the park. The concessionaires who have the restaurants on the grounds are subject to the supervision of the Exposition officials. The prices charged for food are approved by the authorities, and in this case the persons to fix the prices are the members of the Ways and Means Committee. Extortionate charges and very poor service were imposed upon the public by many of these restaurant concessionaires at the opening, but there was such universal and well grounded complaint that official regulation had to be adopted toward these greedy and unscrupulous vendors of food. A great many visitors *take their lunch with them*, and they find that this is by far the cheaper and more satisfactory plan.

In every public building on the grounds there is abundant convenience for checking packages. The Manufactures Building has eight check-rooms; the Fine Arts Building, twelve; the Electrical Building, four; the Agricultural Building, two; the Fisheries Building, two; and other Exposition buildings from one to four in proportion to their various needs. The terminal railroad station has four check-rooms, the Casino is amply supplied, and all State buildings are furnished as their officers may require. These parcel checking-rooms vary in size from 6x8 feet to 59x15. All check-rooms have a series of pigeonholes on the walls, each compartment being eighteen inches in each of its three dimensions. The checks are manila tags, machine numbered, and divided into three parts, after the manner of the usual package checks in railroad depots. A charge of 10 cents is made for each day or fraction of a day upon delivery of the parcel. On the grounds there are about 20,000 compartments for the reception and care of packages and more than 100 attendants. Besides this checking system a plan of transferring baggage has been instituted whereby a visitor may leave a bundle, for example, in the check-room of the Forestry Building and find it afterward at the railway station upon presentation of one of the colored transfer checks. Facilities are also provided for delivering parcels from any shop or booth on the grounds at any one of the regular checking stations. For this purpose another different style of check is provided. These deliveries are made either specially on short notice or as routine work, the charges to be regulated accordingly.

DEPARTMENT O—PUBLICITY AND PROMOTION.

It is not exaggeration to say that the Department of Publicity and Promotion has fully established the fact that its existence has been essential to the success of the Exposition. It has been an absolutely necessary factor. Chicago having secured the Exposition, those upon whom it devolved to organize and carry forward the great enterprise were confronted with a number of discouraging facts. Certain quarters of the country (candidates for the Exposition in the beginning), smarting under defeat and already beginning to grow jealous of the marvelously prosperous western rival, were hostile. In that hostility other sections shared to a greater or less extent. Again other sections were far from united in the belief that Chicago was the best place in America for holding a world's fair. Europe, and indeed nearly all foreign countries, were accustomed to get their impressions of American affairs from beaten paths. It followed that Chicago started in upon the great task with nearly the entire world hostile, or skeptical and indifferent. At the time Chicago was selected as the location of the Exposition, parts of the English press and people promptly disparaged the importance of the enterprise because of its location, and dismissed the subject with the com-
 called World's no chance of "a local fair."

The Exposition fully realized the confronted them, daunted, they set them a way. They determined that this accomplished the press of the To secure this end the promotion of interests a matter of business, the Department and Promotion upon. Of all the departments this which was organized, it may be inferred how the authorities recognized the necessity and importance of the work it was to

The department was organized in December, 1890, General Davis having appointed as its chief Major Moses P. Handy, of Philadelphia, a journalist of extended experience not only in that city, but in New York, Washington, and several others. He enjoyed a wide acquaintance with men and had the confidence of the press throughout the country. He was relied upon to conduct a campaign which should have for its object the conquering of all hostility to Chicago and the Exposition, and the turning of indifference into enthusiasm.

Major Handy organized his department somewhat on the lines of a gigantic news agency. He recruited his assistants almost entirely from those having extended experience in newspaper work. In January, 1891, the campaign was begun. Circular letters were sent out to every newspaper throughout the civilized world informing them that the department would begin sending out news



M. P. HANDY, CHIEF.

ment that the so-
 Exposition stood
 being more than

tion authorities
 difficulties which
 and nothing
 about clearing
 They wisely de-
 task could not be
 cept the power of
 world be enlisted.
 as well as to make
 the Exposition's
 of systematic bus-
 iness of Publicity
 was determined
 great Exposition
 was the first one
 ized. Thus it may
 fully the Exposi-
 recognized the
 portance of the
 accomplish.

ment was organ-
 1890, Director-

matter relating to the Exposition, and inviting them to make such use of the whole or part of it as they might feel disposed. They were requested also to place the department on their exchange list. It was expressly stated that the news matter would be furnished gratis. The response was very generous, though in some sections of the United States and in some foreign countries much apathy and indifference was manifested. The press of France assumed a somewhat different attitude. Some of the journals of that country wanted to be subsidized, and were not backward in letting it be known. They were met with courteous refusal.

Almost the first thing attempted by the department was to convince the world that Chicago was no "mean city." Articles specially prepared were sent out setting forth the wonderful growth of this city, and no opportunity was omitted to convey the impression that Chicago had determined to make the Exposition the crowning success of all its accomplishments. Then the broad scope of the Exposition, as planned, was described, and special emphasis was made, in matter sent abroad, of the fact that it was an enterprise, not of Chicago alone, but of the United States government, being created and located by Act of Congress, and being aided by appropriations from the government treasury. This was followed by articles giving facts and figures showing the importance to foreign countries of the American market, and the necessity of exhibiting at the Exposition if they hoped to retain the trade they already had in it and to keep pace with their competitors in occupying it as it rapidly expanded. The commanding position occupied by Chicago with reference to the American market for foreign goods was duly commented upon, as was also the fact that the objections to Chicago as a place of exhibit because of its being a thousand miles inland, which were at first urged, were without real force, and that on the contrary, for many specified reasons, the location, because of its being central with reference to the great industries of this country, would tend greatly to enhance the importance of the Exposition, and consequently as a place especially advantageous for the display of foreign exhibits.

Closely following the sending out of articles on the subjects referred to came the information directly concerning Exposition affairs themselves, which began rapidly to develop. The meetings of the National Commission, the adoption of the classification, the organization of the different departments, the selection of architects, the splendidly located site, the raising of millions by Chicago, the plans and descriptions of those magnificent buildings, the rapidly growing enthusiasm over the Exposition throughout the United States, the successive appropriations by the different States, and the acceptance, one after another, by foreign nations of the President's invitation to participate in the Exposition—all of these and innumerable matters of lesser importance were sent forth, as they occurred. For months after the Exposition was located, practically all news relating to it originated in Chicago, and the Department of Publicity and Promotion kept the press of the world informed of it. The press of Chicago, from first to last loyal to the undertaking, performed a very important part in the same service. But it was through the news-letters sent out by the department that the press at a distance from Chicago gained information of what was going on in Exposition affairs. It followed that for a time nearly all the Exposition news that was published at all was what the department disseminated. Later, when the legislative bodies of the States and of foreign countries began to make appropriations and take other action; when commissioners were selected, when intending exhibitors began to divulge their plans; when, in short, the world began to participate, then centers where Exposition news originated began to develop all over the world. As this progressed it became a part of the work of the department to keep all sections of the world posted upon what all other sections were doing in the way of participating in the Exposition. The department became a sort of clearing-house for Exposition news, besides sending forth, as from the first, the news as it kept developing at Chicago.

In addition to the news-letters referred to the department sent out electrotype cuts of the various Exposition buildings and of the principal officials, together with descriptions and biographical sketches. These were given almost universal publication by the press in all parts of the world, and had a very perceptible effect in increasing the interest felt in the Exposition. Many thousands of fine colored lithographs, notably one of a bird's-eye view of the Exposition, were also sent to hotels, libraries, steamship offices, public buildings, prominent manufacturers, agents, business houses and others in all parts of the world. The result was that the world came to know that the Exposition was being built on a scale much more magnificent than had been any of its predecessors. Because of the lithographs and cuts of buildings greater interest was felt in the news-letters. The two complemented each other in winning the favor of the world toward the Exposition. Besides what has been mentioned, there have been sent out by the department many thousands of pamphlets prepared by its staff of writers on various phases of Exposition work, pamphlets giving the rules and regulations of each of the thirteen great exhibit departments, copies of the general rules of the Exposition, official proclamations and announcements of the President and director-general, circulars of the various governing bodies—the National Commission, the Local Directory, the Board of Lady Managers, the Council of Administration, the World's Congress Auxiliary, etc. All of these have been sent to some 50,000 different addresses in all parts of the world. A vast amount of work of a special nature has also been done by the department. Articles on various branches of Exposition work and on Exposition affairs in general, ranging all the way from 1,000 to 40,000 words in length, have been prepared in the department specially for particular newspapers, magazines and other publications. A large number of papers have been supplied regularly every week, each with its own exclusive article. Others have been furnished with such articles as they have requested. Then, too, the answering of thousands of inquiries has been no insignificant part of the work of the department. Many of these inquiries have been very comprehensive and have required much care in the preparation of replies. For example a State commissioner in Oregon asked: "What are the States which have made no appropriation doing toward participating in the Fair?" The department furnished him with the information, telling him that in one State money was being raised by the stock subscription plan; in another the women were holding fairs and raising the necessary funds; in another prominent citizens had contributed what was necessary, relying on the next session of the Legislature to reimburse them in part; in another the counties were appropriating money; in another the State Agricultural Society had undertaken the work of collecting an exhibit that would creditably represent the State, and so on through all the States. Thus the department has been assumed to be an encyclopædia of information about every phase of Exposition affairs.

This part of the work could not be successfully attended to had there not been system throughout the department. Thousands of newspapers and other publications have been received regularly from their publishers. These have been carefully read and all Exposition matter clipped out. A record has been kept of the proportion represented by matter sent out in the regular news-letters of the department. These clippings, classified by States and countries, have been pasted in great scrap-books, which now have run up into the hundreds in number. The department has also had the service of several clipping bureaus, and thus had clippings from thousands of papers not on its exchange list. These clippings have been similarly classified and pasted in scrap-books. Thus the department has kept itself posted on what the press of the world has said of the Exposition. Misstatements and misrepresentations have been carefully noted and, if serious, the department has taken pains to head them off by sending out authorized corrections. It has been able to judge how extensively its own matter, which it sends out, has been published, and it can be truthfully said that the proportion has been remarkably great.

For the sending out of its news letters and other matter the department has had in operation a mailing service similar to that of a great newspaper. The mail list embraces some 50,000 separate addresses. Of these about 20,000 are those of newspapers, and the others include State officials, State and foreign World's Fair officials, consuls, foreign ministers, public libraries, colleges, prominent manufacturers, commercial agents, transportation agents, prominent citizens, etc. To all of these from one to a dozen pieces of mail matter have been sent each week, including news-letters, pamphlets, circulars, lithographs, cuts of buildings, etc. At times the postage bill of the department has run as high as \$1,000 a day. During 1892 the department sent out to each one of its 50,000 addresses articles aggregating 650,000 words in round numbers. Of these 430,000 were in English and 220,000 in German, French, Spanish and other foreign languages, chiefly in those named. A large quantity of matter, however, has been issued in Portuguese, Swedish, Italian, Danish, Russian, etc. In the same period there have been sent out 2,300,000 printed documents, rules, etc., and 8,000 electrotypes. The department has a record of over 60,000,000 words in English alone, having been published in 1892. This would be between 40,000 and 50,000 ordinary newspaper columns. Of this vast amount over 20,000,000 words, or fully one-third, has been of matter prepared and sent out by the Department of Publicity and Promotion. The record for 1891 was but little below that for 1892, and the proportion of department matter published was greater. More than 100,000 lithographs were sent out in 1891.

Another important branch of this department's work has been supplying Exposition news daily to the press of Chicago and to the Associated and United press. Several times each day members of the department staff have gone through all the Exposition departments and offices, examined correspondence, and interviewed visiting commissioners, exhibitors and others, and from them gleaned the news of the day. This has been type-written and supplied to representatives of the different Chicago papers and press associations. The news service in foreign languages has been very extensive. Each country has been supplied bounteously with Exposition news in its own language. The same members of the staff who have furnished the news in foreign languages have also done a great part of the translating necessary in carrying on the voluminous correspondence of the different departments with foreign exhibitors and others.

It fell to the lot of this department along with its other duties to look after visiting newspaper men, furnish them with desired information and facilities for preparing special matter relating to the Exposition. It is the universal verdict that never at any great celebration have the press representatives been better cared for and afforded more complete facilities for doing their work than they were at the Exposition dedication exercises in October, 1892. All of the great dailies had from one to half a dozen representatives there. Almost every paper of standing was represented, and many foreign journalists were present. About 2,500 newspaper men were in attendance. The best seats in the building were reserved for them and their friends. Nearly 3,000 were reserved for that purpose. Each correspondent was furnished with printed proofs of all the speeches and even of the prayers. In an adjoining room were fifty typewriters with machines ready to transcribe whatever the correspondents might choose to dictate, and close by were almost as many telegraph operators to send the "copy" to the various newspapers represented.

During the few weeks just preceding the opening of the Exposition the department has been perfecting arrangements whereby the accommodations and facilities for the newspaper reporters and correspondents should be as complete at the opening and all through the Exposition as they were at the dedication exercises. Three floors in the northwest pavilion of the Administration Building constitute the newspaper headquarters. Generally speaking one floor is occupied by the department offices one by the Chicago press, and one by the outside press, foreign press and file rooms. Desk room, typewriting machines and tele-



MOSES P. HANDY,
CHIEF DEPARTMENT OF PUBLICITY AND PROMOTION.

graphic facilities are provided in abundance. The preparation of passes and the issuance of them to press representatives who were entitled to receive them has also been accomplished by the department, and as may be easily imagined it has been no small task.

While all this has been carried on the department has been engaged for a time in the preparation of the Official Catalogue. This has been a work stupendous beyond the conception of any one uninformed in such matters. The collection of an infinite amount of detailed information from many thousand sources has been necessary, as well as its proper classification by departments, groups and classes.

The varied and extensive work which has fallen to the lot of the Department of Publicity and Promotion is not all indicated even by what has been alluded to above. In conjunction with the great dailies of Chicago the department publishes an eight-page daily newspaper on the grounds during the Exposition. Three pages are edited exclusively by the department, each one of five Chicago dailies having charge of one of the other pages. This paper is published from exhibit presses in Machinery Hall.

[Moses Purnell Handy was born in the State of Missouri, but is virtually a Virginian, his father, a Presbyterian minister, having removed to the old Dominion while the son was yet an infant; and it was in the traditions of that State that the latter was reared and educated, and to her service that he gave his allegiance when the contest between the sections culminated in an appeal to arms. The horrors of conflict fell first upon the border States, particularly upon that portion of Virginia contiguous to the Potomac, in which the Handys were living; the father although a minister of the gospel and a man of peace, was an early victim to the ardor of his convictions and the ill-considered servility of an inexperienced Federal officer. He was arrested, thrown into a military prison; the home was wrecked; the family scattered; and at the age of seventeen the young Moses was cast upon his own resources. At the age of seventeen he entered the Confederate army, was assigned to the staff of General Stevens with the rank of lieutenant, and served until the surrender of Lee put an end to the struggle. Out of the adventures which befell the youthful soldier during those years of exciting experience grew the first achievement in that line which was to become his cherished profession. His first literary venture, consisting of a series of articles descriptive of incidents of foray and battle, appeared in the *Watchman* then conducted by Dr. Deems. Having thus "seen himself in print," the path of future effort was irrevocably determined. The journalistic instinct was in full pulse and vigor, only seeking a channel in which to vent itself. The boy now called on Dr. Converse, editor of the *Christian Observer*, then published at Richmond, and said he must have work. The field was not promising, but with characteristic perseverance he held on until at last (as to such resolute spirits it always does) the opportunity came. In the summer of 1867 Mr. Wilson, candidate for Vice-President, made a canvass in Virginia and was announced to speak near Richmond. Young Handy went to the Richmond *Dispatch* with an offer to report the meeting "for five dollars and a railroad ticket." The offer was accepted, and the result was a report so superior to the usual work in that line as at once to fix the status of the writer. He was tendered and accepted a permanent situation on the *Dispatch*, learning the detail of the craft while engaged in the "all around" work which is the best education for a journalist, and was not long in mounting the higher rungs of the ladder. A little later Mr. Handy, in connection with the exciting and tragic affair of the "Virginian," which so nearly led to a war between this country and Spain, displayed an enterprise in obtaining intelligence and a brilliancy of method in transmitting it which elicited flattering comments. This episode led directly to his establishment with the then brilliant staff of the New York *Tribune*, and his career since has been one of unbroken success. He was subsequently, for a time, editor-in-chief of the once famous Richmond *Inquirer*, and imparted to that staid journal a vigor and spice which astonished the natives. In 1876 he was commissioner from Virginia to the Centennial Commission, and becoming attached to the "Quaker City" remained there during several years in which he managed the *Times*, and afterward held a prominent position on the *Press*, engaging at the same time in other and successful literary undertakings. When the organization of the departments of the Columbian Exposition was undertaken, Major Handy was selected by Colonel Davis to create the bureau over which he now so ably presides. The tender came simultaneously with that by President Harrison of the appointment of consul-general to Egypt. Major Handy, however, decided to cast his fortunes with the Fair. His task was really the creation of a department, for the field was entirely unexplored; methods, as well as forces, had to be originated, and the territory to be covered was the globe. How thoroughly the work has been accomplished is best shown by the universal interest which has been created in the enterprise. A recent traveler through the remote East said on returning home that he had encountered in the most obscure hamlet no person who had not heard of Chicago and the great Exposition. Major Handy was married in 1869 to Miss Sara Mathews, of Virginia. His charm-

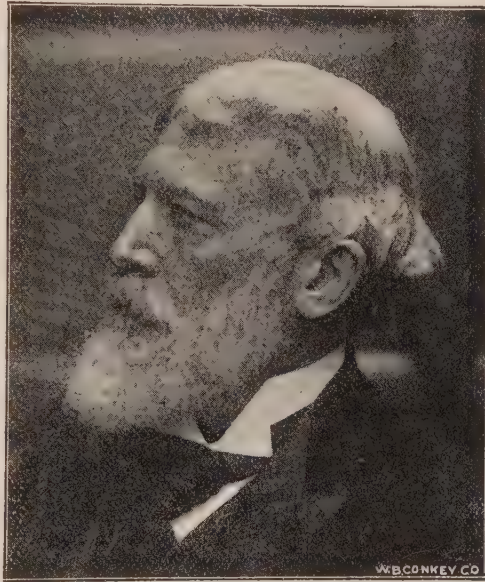
ing home in this city is brightened by the presence of interesting and attractive children. His life is one of arduous industry, but is not consumed with care; for he is the life and light of social occasions, and carries into every presence the easy tact and unaffected charm as a companion which made him famous as President of the Clover Club. Few men are so widely known; none more generally esteemed.]



DEPARTMENT P.--FOREIGN AFFAIRS.

THE wide scope and the successful performance of the duties for which the Department of Foreign Affairs is responsible is best shown by the complete and characteristic representation at the Exposition of nearly every country upon the globe. At the time of the organization of the department in July, 1891, although the invitation of the President of the United States to foreign governments had been formally accepted by many great nations, not an inch of space had been applied for except by domestic exhibitors, while abroad there was a general feeling of apathy that was disheartening to the promoters of the great international exhibition. To correct the erroneous impressions that had been industriously circulated a special commission was dispatched to Europe which, upon its return, was accompanied by representatives from England, Germany and Denmark, authorized by their governments to examine the preparations at Jackson Park and to apply for space if the situation seemed to warrant participation. The enthusiastic report of these experts, made almost simultaneously with the

announcement of patches received commissioners of who had been Japan, Australia, and South America, were speedily awakened of est. Applications instances reasonpreposterously by cable and by opening of the available foot in had been demand-sition managepelled to add structure to its order that the foreign collections and that provision the enormous replayed. From tinual effort of the been in the direcand embarrassing requests of the



WALKER FEARN, CHIEF.

countries beyond the borders of the United States by persistent and diplomatic endeavor, providing for the characteristic representation of many small but unique countries which the proclamation of the President failed to reach. The complete achievement of the former is evidenced by the cordial relations existing among all the foreign representatives now in Chicago, and of the latter by the comprehensive and brilliant displays gathered at the Exposition from the national pavilions on the north; to the forestry exhibits on the south, and to the extreme western limit of the Midway Plaisance. At the opening of the Exposition five hundred commissioners representing forty-five nations are in attendance. These countries are Argentine Republic, Austria, Belgium, Brazil, British Guiana, Bulgaria, Canada, Cape Colony, Ceylon, Colombia, Costa Rica, Curaçao, Denmark, Ecuador, France, Germany, Great Britain, Greece, Guatemala, Honduras, Hayti, Holland, Italy, Jamaica, Japan, Jalore, Java, Korea, Liberia, Mexico, New South Wales, Nicaragua, Norway, Orange Free State, Paraguay,

Persia, Portugal, Russia, Siam, Spain, Sweden, Switzerland, Trinidad, Turkey, Uruguay and Venezuela. In addition to these officially represented countries, splendid displays have been installed in the departmental buildings by representatives of China, Hungary, British India, Peru, Chile and many British, French, Spanish, Dutch, Portuguese, German and other colonies. The care which has been exercised in providing that no country should be unrepresented by its products is instanced in the case of China, that government having declined the president's invitation to participate. Negotiations were conducted with the most influential merchants and manufacturers of China through the American Consular service, which have led to the establishment of one of the most interesting collections in the great Manufactures Building. The failure of the government of India to take official part was at least in some degree counteracted by the overtures which resulted in the erection of a typical Indian building upon the grounds, replete with the brilliant and varied collections of that vast empire, and which has received official aid. Similar methods have secured the artistic manufactures of Hungary, as well as the natural resources of the islands of the Pacific Ocean, and numerous contributions without which the Exposition could hardly be deemed complete. Although its business has been conducted with scrupulous economy, the Department of Foreign Affairs has been compelled to spend more money than any other department of the Exposition, save that of works. It has received nearly 10,000 written communications and dispatched more than 25,000. Although the department has had in its daily mail hundreds of letters in many languages, English has been naturally adopted as the official language of the Exposition and generally used in correspondence. A commodious parlor, well furnished with tables and writing materials, has been provided for the use of foreign commissioners in the offices of the Department of Foreign Affairs in the Administration Building, which is a rendezvous for a large number of these gentlemen. Attaches of the office speaking nearly all tongues, are always present to give all information required.

[Walker Fearn, though born in Alabama, comes from a long strain of Virginian ancestors, Huntsville, his birthplace, was laid out by his great-grandfather, Leroy Pope. His grandfather, John W. Walker, from whom he was named, was president of the convention which framed the constitution precedent to Alabama's admission as a State of the Union. The subject of this sketch entered Yale College in the class of 1848, and graduated with honor three years later. Having read law with the late John A. Campbell he was admitted to the bar on his twenty-first birthday, and soon entered into active practice; but in 1853 began his varied experience in foreign lands by accepting the post of secretary of legation to the Belgian mission. Subsequently he occupied the same position in the Mexican legation, Hon. John Forsyth being then minister to that power. Later he made an extensive and protracted tour of Europe. In 1861 he was one of the Confederate commissioners to European powers, and returned to Charleston under fire of the blockading fleet. Entering the Southern army, Colonel Fearn was at first assigned to the staff of General Joseph E. Johnston, then commanding in Virginia. In 1863 he was again employed in the diplomatic service, first in Europe with L. Q. C. Lamar, since a Justice of Supreme Court of the United States, and afterwards to Mexico with General William Preston. His final military service was as adjutant-general of the trans-Mississippi Department under Kirby Smith, and here the close of hostilities found him. After his marriage with Miss Hewitt, of Kentucky, in 1866, Colonel Fearn devoted himself to the practice of law in New Orleans (also holding a professorship of modern languages in the University of Louisiana) until 1884, when he visited Europe as commissioner of the New Orleans Exposition. He was appointed by President Cleveland minister to Greece, Roumania and Serbia; and at the close of his term established a law firm in London and New York. Colonel Fearn by his experience and acquaintance abroad was pre-eminently fitted for the management of the department to which the director-general invited him. His administration of the office has been successful in the highest degree, and has added to a reputation already high.]

GENERAL INFORMATION.

Description and Location of Buildings Other Than Departmental, State and Foreign—Railroad, Steamboat and Street car Lines to the Exposition—Directory of Officers in the Administration Building—The Fountains and Statuary—All the Features and Points of Interest on the Grounds.

Administration Building.—This building is one of the gems of the Exposition palaces. It is located immediately north of Machinery Hall, south of the Mines and Electricity buildings, east of the Terminal Railroad station and west of the Basin.

The most conspicuous object which attracts the gaze of visitors on reaching the grounds is the gilded dome of this lofty building. The structure covers an area of 260 feet square and consists of four pavilions 84 feet square, one at each of the four angles of the square, and connected by a great central dome 120 feet in diameter and 220 feet in height, leaving at the center of each façade a recess 82 feet wide, within which are the grand entrances to the building. The general design is in the style of the French renaissance. The first great story is in the Doric order, of heroic proportions, surrounded by a lofty balustrade and having the great tiers of the angle of each pavilion crowned with sculpture. The second story, with its lofty and spacious colonnade, is of the Ionic order.

The four great entrances, one on each side of the building, are 50 feet wide and 50 feet high, deeply recessed and covered by semi-circular arched vaults, richly coffered. In the rear of these arches are the entrance doors, and above them great screens of glass, giving light to the central rotunda. Across the face of these screens, at the level of the office floor, are galleries of communication between the different pavilions.

The interior features of this great building even exceed in beauty and splendor those of the exterior. Between every two of the grand entrances, and connecting the intervening pavillion with the great rotunda, is a hall or loggia 30 feet square, giving access to the offices and provided with broad, circular stairways and swift-running elevators.

Above the balcony is the second story, 50 feet in height. From the top of the cornice of this story rises the interior dome, 200 feet from the floor, and in the center is an opening 50 feet in diameter, transmitting a flow of light from the exterior dome overhead. The under side of the dome is enriched with deep panelings, richly molded, and the panels are filled with sculpture in low relief, and immense paintings representing the arts and sciences. In size this rotunda rivals, if it does not surpass, the most celebrated domes of a similar character in the world.

The building is divided into four grand pavilions known as A, B, C and D, occupied from the ground to and including the third floor by officials of the Exposition, express, telegraph and telephone companies, bank, press headquarters, café, Columbian guard, etc., explained below. Above the third floor are four tunnel passages leading from one pavilion to another. The fourth floor is a circular colonnade for sightseers, and from the fifth floor stairways lead to the top colonnade. The occupants of the building are as follows:

Director-General.—The entire second floor of the northwest pavilion (B). Entering the rotunda from the north, take the first section of elevators to the left.

Council of Administration.—The right-hand rooms of the first floor of Pavilion B.

President and Secretary of the Exposition.—The left-hand rooms of Pavilion B.

Secretary of Installation.—South room of the ground floor of Pavilion B.

Collector of Customs.—North room of the ground floor of Pavilion B.

Committee on Awards.—Entire third floor of Pavilion B.

President National Commission.—Right-hand room of the second floor of the southeast pavilion (A). Entering the rotunda from the north, take the second section of elevators to the left.

Secretary National Commission.—Rooms to the left of the second floor of Pavilion A.

National Commission.—Room to the left of the third floor of Pavilion A.

Committee on Ceremonies.—Room to the right of the third floor of Pavilion A.

Western Union and Postal Telegraph Companies.—Entire ground floor of Pavilion A.

President Board of Lady Managers.—Entire first floor of Pavilion A.

Publicity and Promotion.—Second floor of the northwest pavilion (C). Entering the rotunda from the north, take first section of elevators to the right.

Office of the Official Publications.—The Exposition headquarters of the W. B. Conkey Company, publishers of official works to the Exposition, are in handsomely furnished apartments adjoining the main office of the Chief of Publicity and Promotion in Pavilion C, on the second floor. This company's plant is located in two immense seven-story buildings—Nos. 341 to 351 Dearborn street and 63 to 71 Plymouth Place—the largest general printing and book manufacturing establishment in the United States. Here the complicated mechanical work of getting out the *Official Directory*, the *Official Catalogue*, the *Guide*, and other Exposition publications, is carried on, in which over 1,200 employés are engaged in the colossal undertaking, and where specially prepared machinery and skilled labor are employed. Beside this large number of employés, over 2,000 others are engaged in the editorial, translating, compiling, clerical, advertising and art departments; in traveling, supervising and soliciting, the scope of their duties covering all parts of the United States, Europe, and indeed, all quarters of the globe. Communication is had from the editorial department of the publications in the Administration Building to the publication offices down-town by private telephones and messengers. The company has also on the grounds a corrugated iron building, 50x100 feet, with their own special railroad track leading to it, located in the southern part of Jackson Park. It is used as a depot for their supplies and also as a drill-room for the company's battalion of uniformed boys who are engaged in the sale of the *Official Catalogues* of the different departments. These boys, in their scarlet and black uniforms with gold letters on the cap, marching to their respective posts, are a very attractive feature, Commandant Rice having detailed an officer to instruct them so that their appearance is soldierly in its bearing. There are storage booths in each department where a supply of the *Catalogues* is kept and from which each boy replenishes his stock as it is exhausted.

Press Associations and Foreign Press.—The entire ground floor of Pavilion C.

Local Press.—The entire first floor of Pavilion C.

Cafe.—The entire third floor of Pavilion C.

Foreign Affairs.—The entire second floor of the southwest pavilion (D). Entering the rotunda from the north, take the second section of elevators to the right.

Express Companies.—The entire ground floor of Pavilion D.

Bank.—The entire first floor of Pavilion D.

Lockers of Columbian Guard.—The entire third floor of Pavilion D.

Admission.—An admission fee of 50 cents entitles the visitor to see and enter all the Exposition buildings, inspect the exhibits, and, in short, to see everything within the Exposition grounds, except the Esquimaux Village and the reproduction of the Colorado Cliff dwellers. For these as well as for the special attractions on Midway Plaisance a small additional fee is charged. While the plaisance is a portion of the Exposition grounds, it is devoted wholly to side exhibitions. Still the visitor may pass through this strip of land without cost and see the beautiful buildings which have been erected as characteristic of half a score of foreign nations. There are no commutation rates of admission. The charge of 50 cents is made for each admission of all visitors over twelve years of age. Children under six years of age are admitted free when accompanied by attendant with admission ticket; over six and under twelve, 25 cents.

Admissions and Collections Building.—This building is occupied by the auditor, treasurer, superintendent of admissions and superintendent of collections and their staffs. The building is 162x70 feet, two stories high and covers a ground area of 11,340 square feet. It is located immediately west of the Horticultural Hall and north of the Service Building. It cost \$35,000.

Annexes.—All of the annexes are scarcely less imposing and architecturally beautiful than the main buildings themselves. The live-stock sheds, which cover an immense area, were constructed as inexpensively as possible without marring the general architectural effect. The power houses, pumping works, etc., are exhibits in themselves, and so constructed as to be readily inspected by visitors.

Area of Buildings.—The total exhibition area under roof of all the buildings erected by the Exposition company is 199.9 acres. Of this, about 50 acres are in galleries, and 40 acres in the live-stock sheds.

Area of the Grounds.—Six hundred and thirty-three acres. Of this, 80 acres are in the Midway Plaisance and 553 acres in Jackson park. There was available for buildings 556 acres, there being 77 acres in the wooded island and the interior water-ways.

Art Institute.—The Directory of the World's Columbian Exposition contributed \$20,000 toward the building of the new Art Institute, located on the Lake Front, at the foot of Adams street, and the Exposition is interested in the institution to the extent of its use for the World's Congress Auxiliary. It is built of stone, in renaissance style, and is 340 feet long and 180 feet wide. It cost \$600,000. It is open free to the public as an art institute on Wednesdays, Saturdays, all legal public holidays, and from 1 to 5 o'clock Sundays. At other times, except when the Congresses are in session, an admission fee is charged.

Attractions to which an Extra Fee is Charged.—Following are the attractions on the grounds to which, in nearly all cases, an extra fee is charged in addition to the admission fee of 50 cents. These attractions are the property of private individuals or corporations and are not integral parts of the Exposition proper:

Constantinople Street Scene, Midway Plaisance—Turkish Theatre (two performances daily), admission 50 cents; Persian tent, admission 25 cents; panorama, Syrian photos, admission 25 cents; Turkish restaurant, native musical performances, tribe of Bedouins, admission 25 cents.



W. B. CONKEY.

PRESIDENT W. B. CONKEY COMPANY,
OFFICIAL PUBLISHERS TO THE WORLD'S COLUMBIAN EXPOSITION.

Cairo Street, Midway Plaisance—Egyptian amusements, native dancing, snake-charmers, fortune-tellers, conjurors, musical and theatrical performances, collections, photos, pictures and paintings, wedding processions and mouled; admission until 11 a. m. 25 cents, reserved seats 25 cents; after that hour free. Egyptian temple, admission 25 cents.

Dutch East India Village, Midway Plaisance—Two theaters (one on each side of street), exhibitions by native bands, jugglers, snake-charmers, dancers (male and female), and other characteristic entertainments. Admission fees to be approved by Committee on Ways and Means. At present, admission 25 cents.

German Village and Town of Mediæval Times, Midway Plaisance—German and Bavarian bands in connection with restaurant, museum of curios, antiquities, and works of art peculiar to Germany. Admission 25 cents. German tribes representing house of the Upper Bavarian Mountains, Black Forest or Alsatian, the Allman Tribe, the Hessian or Altenburg House of Silesian Bauren, Middle Germans, Westphalian Hof of the Lower Saxons, etc. Such tribes and houses to constitute the village.

Natatorium, Midway Plaisance—Natatorium with musical performances. Admission, with use of baths, 50 cents.

Esquimau Village, Jackson Park—Esquimau village, Labrador trading post, and native exhibit. Admission 25 cents.

Moorish Palace, Midway Plaisance—Exhibit and sale of native goods, chamber of horrors, trip through Switzerland, trip to the moon, camera obscura, representatives in wax, etc. Moorish Palace, right to exhibit \$1,000,000 in gold coin. Cafe in connection. Admission to amusement features, 25 cents.

Panorama of Bernese Alps, Midway Plaisance—Scenery of Switzerland. Admission 50 cents. Panorama of Volcano of Mount Kilauea, Midway Plaisance—Painting to faithfully reproduce in miniature the volcano action of the crater of Mount Kilauea. Admission 50 cents.

Algerian Village, Midway Plaisance—Algerian village, Tunis and Algeria streets and bazaars, etc., concert hall, cafe, Kabyle House, tents, etc. Admission 25 cents.

Hungarian Concert Pavilion and Cafe, Midway Plaisance—Musical entertainments, theatrical performances, gypsy bands, native performers in native dress. Admission 25 cents.

Venetian Glassware and Mosaics, Midway Plaisance—Factory in full operation, sale of Venetian and Florentine wares. Admission 25 cents.

Chinese Village, Midway Plaisance—Chinese village, theatre with native performers. Joss house and Chinese tea garden and cafe. To theatre and Joss house admission 25 cents.

Irish Village and Blarney Castle, Midway Plaisance—Representing ruins of Blarney Castle, exhibit and sale of Irish products by natives.

Lectures on Animal Locomotion, Jackson Park—Lectures on Animal Locomotion, illustrating science of animal locomotion and zoöpraxiscopic fans. No admission charge.

Nippon Tea House, Wooded Island, Jackson Park—Japanese tea house, light lunches and samples of high priced teas. Admissions 10 cents, 25 cents, and 50 cents.

Persian Building, Midway Plaisance—Exhibit and manufacture and sale of distinctively Persian goods. Musical entertainments, etc., native artisans and performers. Admission 50 cents.

Ruins of the Cliff Dwellers, Jackson Park—Representation of ruins of the Cliff dwellers, antiquities and curiosities connected therewith. Admission 25 cents.

Costumed Natives of Forty Countries, Midway Plaisance—Exhibit of natives, appropriately costumed, from at least forty of the countries of the world; sell photographs of same. Admission 25 cents.

Typical Irish Village with Native Inhabitants, Midway Plaisance—Admission 25 cents.

Japanese Bazaars, Midway Plaisance—Manufacture and sale of Japanese articles; native attendants. No admission fee.

Vienna Cafe and Concert Hall, Midway Plaisance—Restaurant with musical performances. No admission fee.

Competitive Musical Exercises, Festival Hall—Musical exercises Sept. 6, 7, and 8. Prices to be approved by Exposition company.

Model of St. Peter's Church, Rome, Midway Plaisance.—Admission 25 cents.

Hagenbeck's Zoological Arena, Midway Plaisance—Exhibition of wild animals, etc. Admission to building 25 cents. Seats in amphitheater from 25 cents to \$1.

Tunisian Exhibit and Cafe, French Government Section, Jackson Park.—Cafe with musical entertainments and exhibit of Tunisian goods. No admission fee.

Mammoth Crystal Cave, Horticultural Building.—Reproduction of the mammoth crystal cave situated near the City of Deadwood, S. D. No admission fee.

Model Eiffel Tower, Midway Plaisance—Model twenty feet in height. Admission 25 cents.

Vienna Mannerchor Society—Musical exercise in Festival Hall during the summer months of 1893. Prices to be approved by the Bureau of Music.

Whaling Bark "Progress," South Pond—The old whaling bark "Progress," to install and maintain therein a museum illustrating the whaling industry. To contain all marine curiosities and relics. Admission 25 cents.

Electric Scenic Theatre, Midway Plaisance—Showing a landscape or other scenes under the changing light as a day passes. The effects being products by a multitude of various colored electric lights. Admission 25 cents.

East Indian wares, Midway Plaisance—Exhibition and sale of native wares. No admission.

Festival Hall, Jackson Park—Musical entertainments by world's famed artists and musical societies throughout the Exposition period. Price of admission \$1.

Captive balloon, Midway Plaisance.—Balloon ascensions; elevation 1,500 feet, two trips an hour. Admission to inclosure 25 cents; trip in balloon \$2. Each passenger making ascension is entitled to photograph of party.

Barre Sliding Railway, Midway Plaisance—10 cents a ride.

Constantinople Street Scenes, Midway Plaisance.—Sedan chairs. Rent, with two native carriers, \$1 an hour.

Cairo Street Scenes, Midway Plaisance—Donkey and camel rides; 50 cents an hour for donkeys, 25 cents for ride through street on camel.

Dutch East India Village, Midway Plaisance—Palkees and other native vehicles for transportation. Prices to be approved by Committee on Ways and Means.

World's Fair Steamship Company—Transportation of passengers to and from Jackson Park, round trip 25 cents.

Electric Intramural Railway—Elevated railroad about Jackson Park, 10 cents for round trip or part thereof.

Steam Launches—Transportation through outer lagoons, basins and Lake Michigan, round trip 25 cents.

Electric Launches—Transportation through lagoons and basins, round trip 25 cents.

Wheel Chairs—Roller chairs about grounds and buildings, 75 cents an hour with attendant, 40 cents an hour without attendant.

Venetian Gondolas and Barges—About lagoons and basins, with gondoliers, 50 cents per round trip.

Elevators in Transportation Building—Ten cents a ride.

Elevator to the Roof of the Manufactures Building—Fifty cents for trip.

Vertical Revolving Wheel, Midway Plaisance—The wheel 250 feet in diameter and 137 feet in height; 50 cents for ride of two round trips.

Movable Sidewalk, Long Pier, Jackson Park—Electrically propelled sidewalk; 5 cents a ride from shore to end of sidewalk, or vice versa.

Boats.—The interior waterways of the ground are equipped with speedy small boats for pleasure and transportation purposes. The boats are driven by steam and electric power. Every principal building on the grounds can be reached by water, and there is an ornamental landing for each. There are three classes of boats—first, the "omnibus," carrying from thirty to forty passengers, which makes the round trip of the waterways, stopping at each landing; second, the "express," which makes round trips of the waterways without stopping; third, the "cab," which may be hailed at any point, like the hansom cab on the street, and employed by the trip or by the hour. Besides these boats genuine Venetian gondolas ply the streams.

Bonded Warehouse.—Near the Sixty-seventh street entrance where foreign goods for exhibit are unloaded.

Bridges.—There are sixteen bridges over the lagoons and canal, with iron trusses, each ornamented architecturally to a high degree.

Building Material.—In the erection of the Exposition buildings it is estimated 75,000,000 feet of lumber are required. This represents 5,000 acres of standing trees. The structural iron and steel required is 20,000 tons.

Children's Building.—This structure is 150 feet long by 90 feet wide. The plan of the ground floor shows two principal entrances on the north side, connected with large galleries which allow the visitor to look at the crèche on the west side. There are large assembly and exhibition rooms on the east, offices on the north, and in the middle of the building a large hall devoted to physical culture. On each side of the offices are stairs for the use of children and on the opposite side is a large stairway for visitors. On the second story are four principal rooms which can be seen from galleries. They are devoted to deaf mutes, slöjd, kitchen garden and kindergarten. On the third story is a play garden roof, protected by awings, decorated with all sorts of plants and with two large aviaries full of birds. The exterior of the building is very plain, for a pretentious classic architecture would be out of place there. The only decoration of the walls is a frieze painted on a blue ground and eight medallions of children. All that is drawn in modern American style. The cost of the building is \$30,000.

Cliff Dwellers.—The adobe home of the Cliff Dwellers is near the Anthropological Building. The home is a reproduction of Battle Rock Mountain in the MacEimo Valley of Colorado. It is built of stone, iron, staff and wood, but is artistically arranged to imitate nature, and is covered with vines and moss. The entrance is through a cave in the side of the mountain. The interior contains cactus and other vegetation. Caverns open from the sides of the cañon and in them may be seen a mummy, utensils, etc., as found on the original site. Various implements of the dwellers are scattered around.

Columbian Guard.—A military organization, under the control and direction of the Exposition company, and having no connection with the city police department. The guard is under command of Col. Edmund Rice, U. S. Army, whose title in the guard is commandant. The guards do police and fire-patrol duty inside the grounds and at the gates. It numbers 2,000 men. The secret service part of the command is under charge of John Bonfield.

Colonel Rice started out with the idea of making the Columbian Guard a model organization of selected men, physically, mentally and morally qualified for the work required of them. The following officers of the regular army were detailed to assist Colonel Rice in his duties, and



PUBLIC COMFORT BUILDING.



CHILDREN'S BUILDING.

were assigned as follows: Captain Fred A. Smith, Twelfth United States Infantry, as adjutant of the guard and commanding Company F and patrol system; First Lieutenant C. B. Hoppin, Second United States Cavalry, as quartermaster, and First Lieutenant R. J. C. Irvine, Eleventh United States Infantry, commanding Company B. Each member of the Guard performs his eight hours of duty during the twenty-four. The two reliefs which do the work during the day have four hours on, then four hours off. The night relief has a continuous tour of eight hours. It is all so arranged that no two companies or reliefs are changing at the same hour, day or night. The uniform consists of a light blue cloth sack coat, ornamented with five rows of black braid across the front, each row terminating in a clover-leaf knot; black braid on the cuffs of the sleeves, with three small brass buttons on each cuff and five large ones down the front of the coat. The trousers are of a lighter blue than the coat and trimmed with two rows of flat black braid down each outside seam with a narrow red stripe between. The fatigue cap is made high for the addition of a black pompon on occasions of ceremony, which, together with the black braid shoulder knots and aiguillettes with belt and short sword, constitutes the full dress. The ornaments are a blazing sun, from the center of which an eagle's head appears, worn on the left breast; a whistle for the purposes of signal and alarm; on the right breast a cross-bow after the pattern of 1492, on which is the guard's number, and on the cap a crossed gun and sword in the center of which is a miniature morion, or leather helmet, such as was in vogue during the time of Columbus.

Cold Storage Building.—This pavilion is 150x255 feet. It is Romanesque in style, and five stories high. At each corner there is an imposing tower, from which an extensive view of the grounds may be had. The central tower is a "smoke stack," and probably the most artistic one ever seen. It is 191 feet in height and elaborately decorated. In this building the most interesting features are the three 120 ton "Hercules" Ice Making Machines, and the visitors can see there how artificial ice is made.

Casino.—This is one of the most popular structures on the grounds, and it is generally admired for its beauty of architecture. It is located at the south end of the Peristyle, and its dimensions are the same as the Music Hall at the north end, 140x260 feet. It contains restaurants and resting room as a part of the Bureau of Public Comfort, and is a favorite resort for visitors.

Compared with Paris and Philadelphia Expositions.—That the World's Columbian Exposition at Chicago in 1893 is by far the greatest Exposition ever held is shown by the following comparison:

	Paris.	Philadelphia.	Chicago.
Area of grounds in acres.....	238	284.49	633
Area occupied by buildings in acres.....	75½	70.08	142½
Number of main buildings.....	5	23	28
Cost of buildings.....	\$3,903,760.08	\$5,189,828.32	\$7,286,032.46
Cost per square foot.....	\$1.74	\$2.16	\$1.39
Area covered by buildings, square feet.....		3,052,684	6,487,390
Exhibit space (approximate).....		4,323,330	9,138,888

Convent of La Rabida.—An exact reproduction of the Convent of La Rabida in Spain, where Columbus found shelter, in time of trouble, for himself and boy, and where, it is said, he developed his theory of an undiscovered continent in the west, has been erected in the southern part of the grounds. The building is considered more closely connected with Columbus and his great work than any other. It cost \$50,000.

Daily Columbian.—This is a daily news paper made up of the first pages of *Tribune*, *Herald*, *Record*, *Times* and *Inter-Ocean*, and three other pages of matter collected, edited, set up and printed on the grounds. It serves as an exhibit of how a morning newspaper is produced.

Electricity.—Seventeen thousand horse-power for electric lighting is provided for the Exposition Company. This is three times the electric lighting power in use in Chicago and ten times that provided for the Paris Exhibition of 1889. There is 9,000 horse-power for incandescent lights, 5,000 for arc lights, and 3,000 for machinery power. This supplies 93,600 incandescent lights and 5,000 arc lights. The buildings provided with electric power are: Mines, Electricity, Agriculture, Transportation, and Manufactures. The electric plant cost \$1,000,000.

The scheme for lighting the main basin on fete nights during the Exposition includes thousands of incandescent lights of different colors. One row extends just above the water's edge all around the basin, and another row reflects deeper into the water from a few feet higher up. Still higher on the loggias of all the buildings that surround the basin are other rows of lights with here and there a handsome design. Rows of lights also reach around the colonnade story of the Administration building, while the lower part of the building is lighted from the dome and sides. At the base of each tier of the MacMonnies fountain is another row of lights, over which the water falls from the basin above. There are also various search-lights to help out the effect. One of these is placed in the mezzanine floor of the Administration Building to play on the MacMonnies fountain. Another on the Electricity Building throws its light on the Statue of the Republic at the east end of the basin, and still others are employed to help out at other places. The effect of all these many-hued lights reflecting in the water is dazzling and beautiful.

Festival (Choral) Hall.—This building stands upon the shore of the lagoon at a point where the two great promenades meet. Its location enables it to be seen from distant parts of the grounds across the lagoon with its beautiful wooded island and green shores. To one side stands Horticultural hall, while Transportation hall stands on the other. The style of the building, which is Doric, makes it simple and severe in treatment; its form, which resembles an amphitheater surmounted by a dome, gives the building, both externally and internally, a rounded form, from which project on the four sides porticoes, the one facing the lagoon being the principal entrance, and enriched by fluted Doric columns six feet and a half in diameter. From the portico leads a flight of spacious steps, at the foot of which stand two statues, being reproductions of celebrated marbles of Handel and Bach. On either side of the portico are panels in relief work representing the progress of music, and in the panels over the doors are relief portraits of Gluck, Berlioz, Wagner, Schumann, Schubert, Mozart, Mendelssohn, Bach, Handel and Beethoven. The interior has the form of a Greek theater, except that the chorus of 2,500 voices occupies the part assigned by the Greeks to the stage, and thus it becomes amphitheatrical in form. There are no galleries of any kind to obstruct the view or sound. The building will seat 6,500 persons. The decoration of the interior is in the same order as the exterior in relief work and color. A large foyer extends around the building, giving ample room for promenade.

Fire Department.—During the construction work it consisted of eighteen men, three engine houses, three two-horse engines, one one-horse engine, one sixty-gallon hand tank (at the Forestry Building), twenty-six hose carts, with 13,250 feet of hose, and 470 chemical hand extinguishers. The fire pressure is 100 pounds to the square inch, supplied by the engines in the temporary power house. In the complete system of fire protection there is in each building a water stand-pipe, extending from the ground to the roof. Attached to the pipe on each floor, gallery and roof is a reel of hose which throws water automatically with the unreeling of the hose. During the Exposition there is a fire patrol on every floor, gallery, and roof. The city fire department is at the call of the Exposition force.

Fountains.—The McMonnies fountain stands at the head of the Basin, immediately in front of the Administration Building. Its waters are illuminated by electricity. There are two electrical fountains fifty feet in diameter, to the right and left of the McMonnies fountain, two smaller fountains in front of the Fine Arts Building and one in front of the Woman's Building. Certainly no more striking, and perhaps no more perfect a work of art can be found among the groups and figures of sculpture which adorn the grounds than MacMonnies' fountain. It arrests attention even among the wealth of attractive objects which are visible in that portion of the park, and grows upon the admiration as one observes and comprehends the exquisite detail in which the artist has executed a design of bold and large conception. Mr. MacMonnies is the sculptor of whose fertility of imagination and skill in production this Pæan is the creation. The idea presented by the work is that of Columbia, the genius and apotheosis of modern liberty. The ship of state floats in the center of a circular basin, or lake, and is idealized by a triumphal barge. In the prow is a winged figure of Victory heralding the advance of Freedom by blast of trumpet, and bestowing laurels on her champions with the disengaged hand. The barge is attended by eight sea-horses, each bestridden by the animated figure of a youth who urges his steed onward. The rowers are eight female figures, representing Music, Architecture, Sculpture, Painting, Agriculture, Science, Industry, and Commerce. These stand on platforms which rest on shields and moldings of emblematic device; the forward poise of the bodies as they lean to the oars, and the tresses and drapery blown to the rear, conveying the sense of rapid motion. At the helm is a hoary, omnipotent Time. Amidship, on a massive pedestal bearing the arms of the republic, is Throned Columbia, calm and erect in conscious strength, but pose and features expressing vigilance as becomes one who knows the price of liberty. Her feet rest on the globe in token of Freedom's triumph, her right hand rests lightly on the back of the chair around which her garlanded and happy children kneel; in the left hand she extends aloft the torch that lights the world. Victory at the prow; Time at the helm; the Genius of Liberty sailing with serene confidence toward the Future. Such is the story of the sculpture. The proportions of the work are on a grand scale. The smallest figure is 12 feet in height. The culmination of brilliant effects produced when the great electric fountains on either side of the MacMonnies memorial are brought into play. They are much larger than anything of the kind ever attempted before and were put in at a cost of \$50,000. The basins in which the apparatus is fixed are 60 feet in diameter. The floors are pierced for 304 jets altogether, by means of which the water is sent to a height of 150 feet. Like the rest of the display the prettiest effects are produced by concealed lights, thus doing away with the marring by the glare of the exposed light while adding the charm of mystery to the source of illumination. The whole apparatus is controlled by electric signals from one of the domes of Machinery Hall. From there the different lights are turned on and the transition from one form to another controlled. A 36-inch main supplies the water. Illumination is by 38 arc lights of 100 amperes each, requiring nearly 1,000 horsepower in operation.

Grading and Dredging.—In this preparatory work, about 1,200,000 cubic yards of earth were handled. The work began in February, 1891, and was finished the following July. Cost, \$495,000. The ground was originally a series of sand ridges, covered with scrub oak trees.

Grand Central Court.—The center or axis of the court is formed by the water basin. Its foot is marked by the Peristyle, its head by the Administration Building. It is flanked on the north by the Manufactures, Electricity and Mines buildings, and on the south by the Agricultural and Machinery buildings. The completed work presents a magnificent view by day and a gor-

geous spectacle by night. The court at night is elaborately illuminated with electricity. The architectural outlines of the buildings and the shore lines of the basin are delineated in incandescent lights. Powerful search lights bathe the marble-like palaces in floods of ever changing light, and the great electric fountain at the head of the Basin will, at times, spout an iridescent deluge.

Guides for Strangers—Uniformed guides are scattered over the grounds to conduct strangers to points of interest.

How to Reach the Grounds.—The Exposition grounds include all of Jackson Park and the Midway Plaisance, and lie seven miles south of the City Hall, or center of the down-town district.

Visitors can reach the grounds from the city:

By the Illinois Central railroad, leaving the cars at South Park station, Sixtieth street, or Woodlawn Park station. Starting from the pier at the foot of Van Buren street special World's Fair trains run through to the Exposition, without stopping at way stations, making the trip in fifteen minutes. These trains begin running at an early hour in the morning, and are run every five or ten minutes as occasion may require. Fare each way, 10 cents. Regular suburban trains run from the foot of Lake street, stopping at Van Buren, Congress, Sixteenth, Twenty-second, Twenty-seventh, Thirty-first, Thirty-sixth, Thirty-ninth, Forty-third, Forty-seventh, Fiftieth, Fifty-seventh, Sixtieth and Sixty-third streets, making the time in twenty minutes. Single fare each way, 22c cents. A twenty-five-ride commutation ticket from Lake street to Sixty-third street, good for passage on suburban and World's Fair trains, can be purchased at any of the company's ticket offices for \$2.50. The capacity of the Illinois Central is 50,000 per hour.

By World's Fair Steamship company, leaving the docks on the Lake Front, between Monroe and Van Buren streets, and landing at the Exposition pier, opposite the foot of Sixty-third street. Round trip fare, 25 cents. Capacity, per hour, 15,000 passengers.

By the Cottage Grove avenue cable cars, which run as far as the South Park entrance to the grounds. Fare, 5 cents each way. Capacity, per hour, 20,000 passengers.

By the State street cable cars. Fare, 5 cents each way. Capacity, per hour, 20,000 passengers.

By the Elevated Railroad from Congress street, which runs to the Sixty-third street entrance. Fare, 5 cents each way. Capacity, per hour, 20,000 passengers.

By Baltimore & Ohio and Northern Pacific lines. Capacity, 15,000 per day, from western suburbs.

By numerous cabs, hacks and coaches and by water crafts from landings on the river.

Indian School.—This building is a two story frame, 124x28 feet, with a one story L in the rear, 37x31 feet. These are exterior dimensions. The interior dimensions differ but slightly, as it is an ordinary balloon frame. The first floor has rooms arranged along one side of an eight-foot hall, which will be used as two shops, one sewing-room, one sitting-room, two reception-rooms, one school-room and two toilet-rooms. The L contains a dining-room and two pantries. From each end of the hall are stairways leading to boys' dormitory, girls' dormitory and seven rooms for employes on the second floor. On the walls of the lower hall, which is well lighted, are cases containing specimens of Indian school work. A plain roofed porch in front of the entrance is forty feet long and ten feet wide. The building cost \$7,300.

Insurance.—The amount of fire insurance carried is about \$15,000,000. The Exposition company insures only its own property, or property held by it in trust.

Interior Water-ways.—Include eight divisions of water within the grounds, connecting with one another. The "Basin" extends east from the Administration Building to Lake Michigan. It contains 10¾ acres. The "south canal," 2½ acres, extends south from the head of the Basin. The "north canal"—3¼ acres—extends north from the head of the Basin. The lagoon around the wooded island contains 23 acres. The lagoon, north of the island, running to Lake Michigan, contains 3¼ acres. The lagoon, south of the Agricultural Building, contains 8¾ acres. The Lake, south of the Fine Arts Building, 7½ acres. The pond, in the north part of the grounds, contains 1½ acres. Total area of interior water-ways, 61 acres.

Intramural Railroad.—The car house and power house for the railroad are east of the dairy barns. The road is elevated, has electric power, and will transport visitors about the grounds.

Krupp Gun Exhibit.—One of the most interesting places to visit is the Krupp quarters in the southeastern part of the grounds. This famous gunmaker, who was asked personally by his Emperor to make a showing here, has erected a building 85 feet by 200, with an annex on each side running the length of the building and 25 feet wide. The two side buildings are given up to the various kinds of iron and the big one is devoted exclusively to guns, big and little, slow firing and quick, for marine and land batteries. The big gun weighs 122 tons, is 48 feet long, with a 42-centimeter bore, and fires an explosive shell weighing 2,300 pounds a distance of sixteen miles. This is the largest gun in the world and it costs \$1,250 to discharge it. Gishert Gillhausen, the engineer who represents Krupp here, suggests that even though the cost was large the directors of the Exposition might save money after the show closed by firing the gun, as the concussion would undoubtedly knock down all the great buildings in Jackson Park and thus save a lot of labor in their removal. Beside the big gun there are two naval guns, one 36 feet long, weighing 65 tons; another 37 feet long, weighing 45 tons. These two are worked by hydraulic pressure. Two more, designed for coast defense, one 32 and the other 25 feet long, weighing respectively 33,000 and 15,000 pounds, are shown. They are of a new pattern. Armor

plates are shown from 10 to 16 inches thick, but nothing has been made thick enough yet to stop that 2,300-pound shell. The value of the Krupp display is about \$1,000,000.

Leather and Shoe Trades Building.—The Leather and Shoe Trades Building is situated on the shore of the lake, south of the great central basin, southeast of the Agriculture Building, and lies between the Krupp Gun Exhibit and the Forestry Building. It is 575 feet long and 150 wide, its greatest length being from north to south. In the center of the building is a hall, 64 feet wide by 480 feet long and 50 feet high; around the hall are the galleries, 42 feet wide, 18 feet high on the first floor, and 22 feet high on the second floor. The building is well lighted by 520 windows and skylights, and is built entirely of wood. The exterior covering is of staff and plaster. Two large stairways at the end of the hall lead to the galleries or second story; two small ones, in the center of the building, lead directly to the offices and restaurant. A bridge at the height of the first floor crosses the main hall. The building was erected by the subscribers to the stock of the World's Columbian Exposition, on account of the Leather and Shoe Trades Building. Work upon this building was commenced December 5, 1892, and completed and ready for the reception of exhibits on April 1, 1893. It contains all the domestic exhibits of leather, boots and shoes, rubber boots and shoes, and of the allied trades; also the exhibits of leather, in all forms, from all the foreign countries exhibiting at the World's Columbian Exposition. Fine exhibits have been prepared by a large portion of the shoe and leather trade of the United States and the following countries, and are shown in the building, erected exclusively for leather, viz: France, Germany, Russia, Austria, Spain, Japan, Mexico, Brazil, Venezuela and the Argentine Republic. There is also shown in the building leather curios from the different foreign countries, such as the native foot-gear, clothing, harness, saddles, bags and such articles from museums and private collections as have been made famous by age and association. A model shoe factory is in operation in this building, and more than one thousand pairs of shoes are manufactured daily during the Exposition. The entire second floor is devoted to machinery, which includes the model factory, shoe, leather and rubber machinery. Mr. Clinton Collier is the superintendent of the Leather and Shoe Trades Exhibit, and the display is a part of the Department of Manufactures.

Living Indians.—Various tribes of American Indians are encamped near the Anthropological Hall and this is one of the attractive features of the Ethnological Exhibit. The Indians live on the grounds in the same manner they do on their respective reservations, showing their canoes, costumes, hunting and fishing apparatus, trinkets, etc.

Machine Shop.—A complete outfit of repairing tools and machines is furnished free as an exhibit. The machine shop, pump house and power house cost \$85,000.

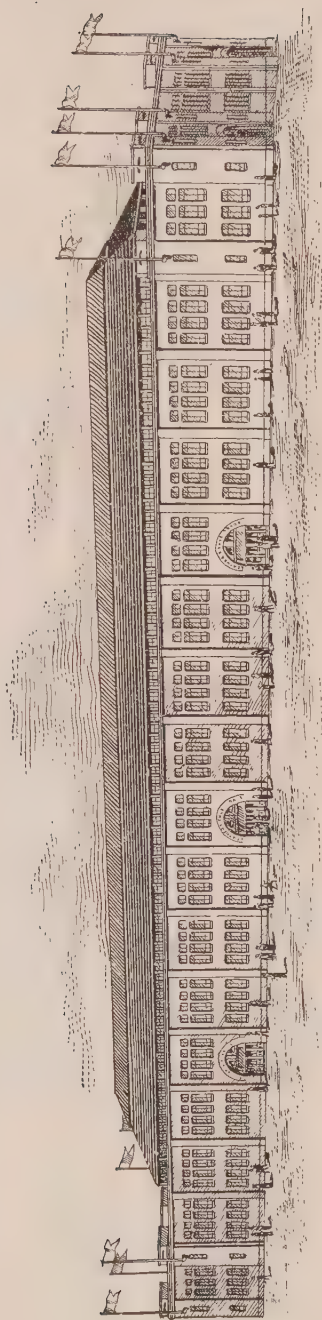
Medals and Diplomas.—The winning exhibitors will each receive a bronze medal and a handsome diploma, setting forth the specific purpose for which the medal was awarded. Provision has been made for 75,000 medals and diplomas.

Merchant Tailors' Building.—This building was erected under the supervision of the Chicago Merchant Tailors' World's Fair Committee, of the Merchant Tailors' National Exchange of the United States of America, at a cost of \$30,000, the money having been raised by voluntary contributions from the merchant tailors and woolen and trimming merchants of the United States. The building is 94 feet each way over all. It is 55 feet 6 inches square, inside measurement, and is in the form of a Greek temple, a reproduction of the Erechtheum, at Athens, finished about 410 B. C., planned by Pericles, and erected under the supervision of Phidias, the great Greek sculptor. The interior of the main room is octagonal in shape, which forms a small room in each corner. Upon the north and south sides is a semicircular room, 14x22 feet. The toilet and semicircular rooms, also the portico fronting upon the lagoon, are strictly private for the exclusive use of subscribers to the Building Fund. The walls are finished in cream and gold and decorated with mural paintings, representing the eight great historical periods of dress: First, Adam and Eve making aprons of leaves; second, a Barbarian scene; third, Egyptian; fourth, classical Greek; fifth, mediæval; sixth, renaissance; seventh, Louis XIV to XVI; eighth, modern. There are also other frescoes emblematic of the trade. The floor leading from the entrance to under the dome, and all of the space under the dome (circle, 33 feet in diameter), is covered by ceramic mosaic from Shropshire, England, which, with the rich drapery of the entrances to the private reception rooms make the merchant tailors' exhibit hall most attractive. The building is near the bridge across the north pond.

Midway Plaisance. A strip of land 600 feet wide and seven-eighths of a mile long, between Fifty-ninth and Sixtieth streets, containing 80 acres, connecting Jackson and Washington Parks. In this section are located many of the amusement attractions outside the main exhibition buildings, all of them being private concessions.

Music Hall.—The Music Hall, which is located on the shore of Lake Michigan at the northerly end of the great Peristyle, is 140 feet wide by 246 feet long, and about 65 feet high. The main audience room is in the center of the building, and is 126 feet long by the full width of the same, and occupies the full height of the structure. The space for the orchestra and chorus is at the east end, and it is in the form of a great hemicycle or recess, which opens into the main hall by an arch 66 feet wide and 54 feet high. This recess is semi-circular in plan at the rear and 50 feet deep from the front of the arch to the back of the circle. The ceiling of this recess or hemicycle is shaped like a quarter section of a sphere, so that the sound of the music is projected forward into the audience room.

Just outside of the arch on the main floor is the platform for the orchestra with the chorus rising behind on a series of wide steps. To the west of the orchestra is the parquette, which will



LEATHER AND SHOE TRADES BUILDING.

seat from 800 to 1,000 persons. These seats are also arranged on wide steps or platforms which rise gradually to the rear end, thus giving an uninterrupted view of the stage and conductor to every person. All around this parquette, except on the side occupied by the stage, is a loggia or passage about 20 feet wide, connecting with the main hall by many wide doorways, thus giving ample space for the entrance and exit of the audience with comfort and celerity. Above this loggia, which is about 20 feet high at the exterior wall and 14 feet high at the inner wall next the parquette, is the great balcony, which will seat about 1,200 persons. The seats here are also arranged on rising steps, so that every one can have a perfect view of the stage and of the audience in the parquette below. The seats of the balcony sweep round in a semi-circle at the west end opposite the stage, thus giving the audience room and the stage combined the form of a great oval. Around the front of the balcony are Corinthian columns which support the roof, and over the inner space is a large skylight which gives ample light by day. Around the rear of the balcony are also a series of large windows commanding a view of the great court on the south and the lake on the north. The main entrance is at the west end through three wide archways into a great vestibule 60x80 feet, and thence through three great openings into the loggia about the parquette. On each side of this vestibule are wide and easy stairways, giving access to the balcony and second story of the building, and over the vestibule is a smaller hall 60x80 feet in size, which is for a recital hall, etc. Opening off this hall are several rooms, used for offices or dressing rooms, about 25x40 feet each. Opening upon the vestibule, loggia and the balcony above are large and numerous dressing and cloak rooms of about the same size as above. At the other end and opening from each end of the orchestral platform are rooms for the accommodation of the Director of Music and the principal singers and performers, with ample toilet rooms connected therewith. At the rear of the hemicycle are large rooms for the chorus, and reached by private entrances directly from the seats. Above these rooms are others of the same size which are used for meetings and as offices for the Bureau of Music. There is a third floor, which also contains several large rooms for general purposes. On this floor and over the balcony is a large standing place of the same size as the balcony below, which opens upon the main hall, through a series of arched openings in the coved ceiling of the audience room, which will hold a great many people in case of an extra occasion, and is reached by ample stairways. The interior of the hall is richly decorated in color, with emblematic paintings on the face of the east wall above the great arch, and in the panels of the ceiling. It has been specially planned for acoustic effect. The great arch of the hemicycle is richly ornamented with architectural detail, and the whole can be brilliantly lighted by electricity in the most novel effects. The architecture of the exterior is, like that of the Casino and Peristyle—Roman Corinthian—and richly ornamented in detail. Around the entablature above the columns are inscribed the names of the great composers, and on the pedestals of the balustrade surmounting the cornice are placed many statues, 12 feet high, emblematic of the art of music.

The Bureau of Music, composed of Theodore Thomas, Musical Director; William L. Tomlins, Choral Director, and George H. Wilson, Secretary, has announced the following plan in general for music during the six months of the Exposition:

1. Semi-weekly orchestral concerts in Music Hall.
2. Semi-monthly choral concerts in Music Hall.
3. Six series of International concerts, choral and orchestral, each consisting of from four to six, in Festival Hall and in Music Hall.
4. Three series of oratorio festivals by United American Choral societies in Festival Hall.
5. Concerts in Festival Hall, under the auspices of German singing societies.
6. Concerts in Festival Hall, under the auspices of Swedish singing societies.
7. Six series of popular miscellaneous festival concerts by American singers.
8. Twelve children's concerts by Sunday-school, public school, and specially organized children's choruses.
9. Chamber music concerts and organ recitals.
10. Daily popular concerts of orchestral music in Festival Hall.

New England Clam Bake Building.—This building is located on the north pond near a group of foreign buildings. Its dimensions are 60x120 feet. It is used as a fish restaurant. The upper story is occupied as headquarters of Knights Templars.

Other International Expositions.—The following table shows some interesting facts concerning eight International Expositions held in the past:

Where held.	Year when held.	Number of exhibitors.	Number of admissions.	No. of days open.	Average daily attendance.	No. of acres occupied by buildings.
London.....	1851	17,900	6,039,195	144	41,938	21
Paris	1855	22,000	5,162,330	200	25,811	24½
London.	1862	29,000	6,211,103	171	36,322	23½
Paris	1867	52,000	10,200,000	217	47,470	37
Vienna	1873	42,009	7,254,687	286	39,003	40
Philadelphia....	1876	60,000	9,910,996	159	62,333	56
Paris	1878	52,000	13,000,000	194	67,010	60
Paris	1889	60,000	32,354,111	183	181,170	75½

Peristyle.—The connecting structure between the Music Hall and the Casino, at the foot of the Basin. It is 600 feet long, 60 feet wide and 60 feet high. At its center is a grand archway, forming a portal from Lake Michigan to the Grand Central Court. This portal is dedicated to Columbus, and is inscribed with the names of the world's great explorers. Crowning it is a group of statuary, emblematic of the progress of the world. The Peristyle bears forty-eight

columns, representing the States and Territories. Each State's column bears its coat of arms. The cost of the Peristyle, with the Casino and Music Hall, was \$300,000.

Piers.—There are four piers in all. These are the Park Haven, 250x2,300 feet, and carrying a movable sidewalk upon it, which has a loop at both ends; the north-inlet pier; the pier around the battle-ship and the down-town pier.

Polish Building.—The Polish Building is constructed after the style of a country pavilion, such as is found in the forests of that land. Its dimensions are 50x80, and its height is two stories. It contains a restaurant conducted upon the Russian and Polish plans, where meals are furnished cooked in the manner peculiar to those two lands. This structure is located near the Fisheries Building. It cost \$10,000.

Power House.—Here are stationed the engines for the 24,000 horse-power provided. The largest engine in the plant is about twice the size and power of the celebrated Corliss engine. Oil is used for fuel. The boilers present a solid bank 600 feet long. Of the 24,000 horse-power, 17,000 is provided for electricity.

Puck Building.—This pavilion is located between the Woman's and Horticultural buildings. Its form is a parallelogram, and as to architecture it is a combination of all that is airy and graceful. The southern entrance is through a semi-circular porch supported by six elaborately carved columns of quaint design. The central group represents the Puck, holding in one hand a crayon and in the other a mirror, while on his head is the proverbial pot hat. Beneath this figure are grouped figures of cupids emblemizing in their expressions of naughtiness, mischief and good natured fun. Every department in the production of *Puck* is exhibited in the building. Artists at work, type-setting, color printing on power-presses, folding and stitching, are shown, and prove of great interest to visitors.

Pumping Works.—The two pumps have a capacity of 40,000,000 gallons of water per day, which constitutes the main Exposition water supply.

Sale of Liquor.—Prohibited within the grounds, except in restaurants. Required to be served only at table in connection with meals.

Saw-Mill Exhibit.—This exhibit is in connection with that of Forestry, and it is entirely distinct from the displays of saw-mill and wood-working machinery, which are installed in the Machinery Building. Four saw-mill plants are installed, occupying altogether a building measuring 125x300 feet. The building is plainly constructed, costing only about \$35,000, but affords ample facilities for a competitive display of saw-mill plants and the latest improvements in connection with the same. Exhibitors of saw-mill plants in this building bear the expense of installing and operating them. One-half of the building is two stories high, to accommodate bands and gangs and to provide also a gallery from which visitors may view the working of the machinery to good advantage and without danger. This exhibit is a very novel and interesting one, as well as instructive to those who desire to witness the workings of the latest and most approved saw-mill machinery.

Sewerage.—The rain water from the roofs is conducted by one system of underground pipes into the interior waterways. The flood water from the ground is conducted by another system of pipes into Lake Michigan. The sewage proper is forced by hydraulic pressure through a third system of pipes to the cleansing works. Here it is precipitated into tanks, where it is purified by a chemical process, and the solids are pressed into cakes and burned under the boilers. This sewerage system is on a scale sufficiently large for a city of 600,000 population, and constitutes an exhibit in itself.

Special Days.—Special days are to be a great feature at the Exposition. Many of the States of the Union have their day, upon which special exercises will be held, and their Governors and staff, other State officers, militia and thousands of their distinguished and other citizens will be in attendance. Receptions will be held at the State buildings, respectively, and the Governors and others will make speeches. Many musical, civic and secret societies also have days upon which to hold exercises peculiar to themselves. It is believed that these special features will draw many additional thousands of visitors.

Following are the dates assigned by the committee on ceremonies for State, foreign and other celebrations:

Kentucky	June 1	Turner bund	July 27
Denmark	June 5	New South Wales	Aug. 1
Nebraska	June 8	National Union	Aug. 2
Travelers' Protective Association	June 10	Knights of Pythias	Aug. 9
France	June 14	J. O. Foresters	Aug. 12
Germany	June 15	Hayti	Aug. 16
Massachusetts	June 17	Austria	Aug. 18
North Dakota	June 20	North Carolina	Aug. 18
New Hampshire	June 21	Colored people	Aug. 25
Sweden	June 24	The Netherlands	Aug. 31
Millers' Day	June 29	Nicaragua	Sept. 1
Independence Day	July 4	Catholic Education Day	Sept. 2
College fraternities	July 20	New York	Sept. 4
Columbia	July 20	Brazil	Sept. 7
Utah	July 24	California	Sept. 9
Liberia	July 26	Maryland	Sept. 12
Commercial travelers	July 26	Michigan	Sept. 13, 14

Costa Rica.....	Sept. 15	Sons of America.....	Sept. 20
Mexico.....	Sept. 15	Iowa.....	Sept. 21
Kansas.....	Sept. 15	Rhode Island.....	Oct. 5
New Mexico.....	Sept. 16	Connecticut.....	Oct. 11
Nevada.....	Sept. 18	Spain.....	Oct. 12
Colorado.....	Sept. 19	Italian Societies.....	Oct. 12
Montana.....	Sept. 20	Minnesota.....	Oct. 13

Special days have already been held as follows:

Catholic Knights of America.....	May 9	Norway.....	May 17
Vermont.....	May 10	Wisconsin.....	May 23
Washington.....	May 17	Maine.....	May 24

Statuary.—ADMINISTRATION BUILDING. Groups around the Dome. Commerce, Industry, Justice, Religion, War, Peace, Science, Art. Groups on the Corner Pavilions: Charity, Truth, Strength, Abundance, Tradition, Liberty, Joy, Diligence, Education, Unity, Patriotism, Theology. Single Figures: Fishermid, Bather, Air, Diana, Harvesting, Electricity, Blacksmith, Chemistry. Groups at sides of the Four Entrances: Water, Uncontrolled; Water, Controlled; Fire, Uncontrolled; Fire, Controlled; Air, Uncontrolled; Air, Controlled; Earth, No. 1; Earth, No. 2. Interior Figures: "Victory." Karl Bitter, sculptor.

AGRICULTURAL BUILDING.—Two "Ceres" Groups. Eight "Four Seasons" Groups. Four Horoscope Groups. Four Cattle Groups. Four Horse Groups. Four "Pilio," for the corner Pediments. 20 Figures of "Zodiac." 68 Figures "Abundance." The "Glorification of Ceres" in the Main Pediment. Larkin G. Mead, Florence, Italy, sculptor.

MACHINERY HALL.—10 Figures of "Sciences." The East Pediment. Figure of "Victory," of which 13 casts were made in copper, by W. H. Mullins, of Salem, Ohio. M. A. Waagen, sculptor. 6 Figures of Inventors. Figure of "Victory," of which four casts were made in copper, by W. H. Mullins, Salem, Ohio. Robert Kraus, sculptor.

COLONNADE.—One Cattle Group. One Horse Group. Four Large Lions, at the base of the obelisk. M. A. Waagen, sculptor.

MUSIC HALL, CASINO AND PERISTYLE.—"Quadriga" Bull and Horse. French & Potter, sculptors. Figures, "Orator," "Indian," "Navigation," "Fisherboy," "Music." Theodore Baur, sculptor. Four Groups on Water Gates. Bela Pratt, sculptor.

TRANSPORTATION BUILDING.—16 Figures of Inventors. 8 Groups. 5 Bas-Reliefs, representing progress in transportation methods. J. J. Boyle sculptor.

HORTICULTURAL BUILDING.—Two Groups. Battle of Flowers, Sleep of Flowers, "Flora." Six Single Figures. Lorado Taft, sculptor. Cupid Frieze, extending all around the building.

GALLERIES OF FINE ARTS.—8 "Caryatides" and 12 Figures of Angels. Philip Martiny, sculptor. One "Renommee," (Victory.) 8 Figures of Arts and Sciences. Olin L. Warner, sculptor. Five Busts of Celebrated Artists, by Warner: Angelo, Titian, Raphael, Rembrandt, Velasquez.

ANIMALS FOR THE BRIDGES.—Six Native Animals of America, modeled by each of these gentlemen: Edw. Kemeys, A. P. Proctor, sculptors.

WOMAN'S BUILDING.—Pediment, "Glorification of Woman's Work." 12 Groups, 6 casts each of "Hope" and "Charity." Miss Alice Rideout, sculptor.

STATUE OF "NEPTUNE" Duplicated Six Times, on Rostral Columns. Johannes Gelert sculptor.

STATUE OF THE REPUBLIC.—Mr. D. C. French's statue, "The Republic," is impressive and imposing in the highest degree. Rising from the waters of the lagoon, with the Peristyle for a background and facing the Administration Building, it is not dwarfed by comparison with either. Of colossal size (the statue proper is 65 feet in height), the characteristics of the figure are simplicity and grandeur. The pose is firm and majestic; the drapery chaste and severe; the expression is that of confident power and benign purpose. The arms are uplifted with easy grace; the right hand holding aloft a globe on which is perched the American Eagle; the left grasping a staff crowned with a Liberty cap. The statue is gilded. The head is encircled by a crown, the jewels of which are electric lights.

STATUE OF BENJAMIN FRANKLIN.—In South Hemicycle of Electricity Building. Carl Rohl-Smith.

WISCONSIN BUILDING.—"Genius of Wisconsin," in marble. Miss Mears, sculptor. "Forward," a ship. Miss Miner, sculptor.

KENTUCKY BUILDING.—Statue "Daniel Boone." By Miss Yondell, sculptor.

Staff.—A composition of plaster, cement, and hemp, or similar fiber. All the Exposition buildings, and many of the State Buildings are covered with staff. It is lighter than wood, is fire-proof, water-proof, and, if kept painted, will last many years. The architectural and sculptural designs in the covering of the buildings are first modeled in clay, from which model molds are made, and the staff covering is then cast very much as iron is cast. Staff has been used for more than 100 years as a covering for buildings, notably in South America.

One of the wonders of staff as seen at the Exposition is its color. Grayish-white is its natural tone; and the basis of its success at Jackson Park; but it will take any tint that one chooses to apply, and maintain a liveliness akin to the soft bloom of the human skin. Staff is an expedient borrowed from the Latin countries, and much cultivated in South America. Any child skilled in the mechanism of a mud pie can make it, after being provided with the gelatine molds

and a water mixture of cement and plaster. When the staff has hardened, the resultant cast is definite, light and attractive. A workman may walk to his job with a square yard of the side of a marble palace under each arm and a Corinthian capital in each hand. While it is a little green it may be easily sawed and chiseled, and nails are used as in pine. Moreover rough joints are no objection, since a little wet plaster serves to weld the pieces into a finished surface.

Telegraph Service.—Visitors, especially those from distant lands, are afforded an object lesson in the form of a magnificent model of a modern telegraph office handsomely equipped and in practical operation. The arrangements made by the Western Union are on a scale, as to dimensions and beauty, that will compare favorably with any exhibit on view at the Exposition. The main telegraph office on the grounds is located in the southeast wing of the Administration Building. It is finished in oak, and contains four counters at which business may be simultaneously filed. There are desks for seventy-two operators. This force does not include the manager, chief operators, clerks, and messengers. This branch office has direct connection with the various cable offices in New York. Direct wires also connect the Administration Building office with the main offices of the Western Union in New York, Washington, and all the larger cities in the United States, where newspaper and other "loops" may be attached. In addition to the central office eighteen other offices are scattered throughout the grounds in the most accessible and desirable locations. There are two such branch offices in the Manufacturers Building, one in the Electrical Building, one in Machinery Hall, one in the Casino, one in the Agricultural Building, one in the Terminal station, and one at the Ferris Wheel on Midway Plaisance, with others at suitable contiguous points. All of these offices are equipped as the highest types of perfection. Each of the branches has direct connection with the central office in the Administration Building and with the main operating-room of the Western Union, at the corner of Jackson and Clark streets. For the purpose of establishing perfect connection with the Exposition grounds the Western Union has erected fifteen miles of nineteen-conductor aerial cables, each capable of being quadruplexed, thereby giving seventy-six possible circuits radiating from the grounds. The entire Exposition plant is operated by a complete system of dynamo currents and supplied with all the latest modern electrical appliances.

Telephone Facilities.—The New York, Boston and Philadelphia wires of the Long Distance Telephone Company are connected with the World's Fair Exchange. Connections have been made at New York with telephones in other eastern cities. This has been arranged to continue during the Exposition, so that at any time visitors can converse by telephone with relatives, friends, or business partners in the cities of the New England and Middle States.

Terminal Railway Station.—This is a handsome structure, located directly west of the Administration Building, and forming the west side of the great square. The terminal station is of the Roman-Corinthian style of architecture. In general plan this station is divided into three sections. The central is 200 feet in length by the full depth of the building. It forms the great vestibule. The east and west sections are three stories in height, and contain the waiting-rooms, check-rooms, lunch counters, and the general railroad offices. The central section extends the full length of the building. A marvelous effect is attained by an immense gallery on the second floor. The gallery is 25 feet wide, and extends entirely around the central section, giving it an aggregate length of some 600 feet. Two broad stairways, built in the highest art known to moderns, lead up to the gallery from the main floor. In actual use the gallery is an additional waiting-room, but it also is a convenient place for friends to meet. In the upper part of the great hall there is a frieze of clock faces 24 in number and 5 feet in diameter. They give the time of day or night at twenty-four of the principal cities of the world. The great hall in its principal features and proportions, is adapted from the hall of the Baths of Caracalla at Rome. The construction material consists of wood and iron and the exterior and interior finish and decoration is of staff. Rising above the station are two illuminated balls of metal and glass, 10 feet in diameter. They show clock faces in every direction giving local time. The terminal facilities include everything except baggage-rooms. Trunks of excursionists over the various roads will not be taken into the grounds at all, but will be delivered from the down-town depots.

Connected to the west side of the station is the perron, or landing platform, 80x672 feet, with an overhanging roof, from which a system of umbrella sheds, 13 in number, extend westward a distance of 500 feet.

The entire system of railroads is concentrated here upon 35 tracks. A platform extends along the west side of the building on the level of the second story, with wide covered passageways leading over the roof of the Perron to the intramural elevated railway, which crosses the system of surface tracks above mentioned.

The entire cost of the main building is \$250,000, and of the perron and umbrella sheds, \$50,000, making a total of \$310,000.

Terminal Tracks.—The terminal tracks proper are twenty-six in number, terminating at the west side of the train shed, where are located the entrance and exit gates. In addition to these twenty-six tracks, are nine passing tracks which can be used in an emergency service. Beyond these terminal tracks is the storage yard which consists of twenty storage tracks and four running tracks. In the center of the yard between the storage and terminal tracks is provided a sixty-six foot turntable for the purpose of turning engines or cars if required. There are also provided five water cranes connected with a 50,000 gallon water tank, for the purpose of furnishing water to the locomotives. For the operation of this terminal, power interlocking is provided. There are in the grounds two switch cabins or towers A and B. The south tower B, contains seventy levers and controls the entrance into the terminal and the south end of the storage yard. The

north tower A, contains 160 levers and controls the north end of the storage yard and the terminal tracks proper. The power is steam, furnished by a battery of boilers at each tower. The steam forces a column of water through an iron pipe under ground, which in turn throws the switch or signal. On approaching the yard a train meets with a signal, and from that time on is completely under the control of the superintendent of terminals, who, acting through the levermen in the towers, guides it to its proper track, without any possibility of mishap or danger.

Viaducts.—Have been built by the Exposition Company over Stony Island avenue, Madison avenue, Woodlawn avenue, as well as the Illinois Central tracks at Van Buren street.

White Star Line Building.—Adjoining the "Puck" building and used as an exhibit for the "White Star Line" of Trans-Atlantic steamers.

Women's Dormitory.—For the benefit of the great army of "industrial women," "wage-earners" and "working girls," who visit the Exposition, the Woman's Dormitory Association was formed, the object being to procure for these women a good, clean, safe home at reasonable rates. A building not far from the grounds has been erected capable of sheltering 1,000 women per day. This dormitory is furnished with comfortable beds and toilet conveniences, and is presided over by refined, motherly women who keep a watchful care over unprotected girls who come singly or in groups. Stock in the association, in shares of \$10, was issued to a large number of deserving women, and the shares are taken at the dormitories in payment for lodging bills. Only two persons are allowed to come at one time on a single share. These shares are transferable, and if the face value is not used by the holder during her stay, it can be made over to another, who can use the balance. After the \$10 has been used the share still stands on the association books, credited to the holder and she is entitled to her *pro rata* of the profits, if a surplus remains after the enterprise is closed. The rate per day to stockholders does not exceed forty cents; non-holders of stock are charged a slightly higher rate.

The dormitory is located on Ellis avenue, occupying the entire block between Fifty-second and Fifty-third streets. This location is one of the pleasantest portions of Hyde Park, some ten or twelve blocks from the Exposition, and within three blocks of the Cottage Grove avenue cable line which, for a five-cent fare, carries passengers in six or eight minutes to the Exposition grounds. It is a frame structure, two stories high, built for the association and newly furnished with plain, but comfortable single wire-spring cots, mattresses, etc. About one-half the rooms are single; the balance double; all looking out upon the street, yard, or inner court. No beds are wide enough to accommodate two adults, but children young enough to sleep two in a bed are charged half rates, provided the full rate for the bed is paid. In connection with the dormitory there is a restaurant established for the sole use of its guests where meals are scheduled at reasonable rates and guaranteed quality. The dormitory is under the auspices of the local Board of Lady Managers and other philanthropic women who have given much thought and time to the enterprise, believing it to be a worthy object, and that it will, as carried out, afford means to hundreds of women to visit the Exposition who otherwise would not make the venture or be able to afford the expense.

Wooded Island.—Contains sixteen acres; is devoted to floriculture and horticulture, except the extreme north end, which is occupied by the Japanese exhibit.

Windmill Exhibit.—Located to the south of Machinery hall. Numbers of windmills are to be seen in operation.

Miscellaneous Buildings.—In addition to the above mentioned buildings there have been erected for Exposition purposes the following: Photographic Building, Model Building, Silos, stock barns, perron and sheds, freight houses, stock ring, company's shops, company's barn, tank house, Service Building and entrances, fire and police stations, city police stations at Woodlawn and Hyde Park, sheds for empty cases, two chocolate pavilions, eight Indian houses, garbage crematory, Pennsylvania railroad exhibit, New York Central railroad exhibit, army hospital, besides numerous buildings and booths of concessionaries, and the structures on the Midway Plaisance, such as those of Algeria and Tunis, with many buildings; the Austrian village, about twenty buildings; captive balloon; Chinese village; Dahomey village; Diamond Match Company; Ferris wheel; German village, over thirty buildings; Hagenback's animal show; National Hungarian Orpheum; Irish industries; Irish village, nine structures; ice railway; Japanese bazaar; Libby Glass Company; lecture hall; Moorish palace; natatorium; National Dress and Costume Company; Persian concession; panorama of Bernese Alps, Panorama Kilauaea; St. Peter's model; Venice Murano; Vienna cafe; the Workman's home; South Sea Island village, etc.

THE WORLD'S CONGRESSES OF 1893.

WHAT THEY ARE AND WHEN AND WHERE THEY WILL BE HELD.

The World's Congress Auxiliary.—President, Charles C. Bonney; vice-president, Thomas B. Bryan; treasurer, Lyman J. Gage; secretaries, Benj. Butterworth, Clarence E. Young. The Woman's Branch of the Auxiliary: President, Mrs. Potter Palmer; vice-president, Mrs. Charles Henrotin.

The World's Congress Auxiliary is not only the accredited representative of the World's Columbian Exposition, but also of the Government of the United States, for the conduct of a series of International Congresses at Chicago during the Exposition season of 1893.

The official announcement of the auxiliary has been sent to foreign countries by the Department of State, and the foreign governments have been invited to appoint delegates in addition to those who will attend as the representatives of institutions and societies.

The chief object of the auxiliary is to procure the maturest thought of the world on all of the great questions of the age in a form best adapted for universal publication. Unprepared discussion or miscellaneous debate will not be desirable, but instead thereof, the time at disposal after the delivery of the formal discourses, will be given to the most eminent persons present, who will speak on the call of the presiding officer, and to whom such previous notice as may be practicable will be given.

The summaries of progress to be presented, and the problems of the age to be stated, will not be submitted to the vote of those present, but will be offered for subsequent deliberate examination by the enlightened minds of all countries for unrestricted discussion in the forum, the pulpit, and the public press, and finally for the impartial judgment of that exalted public opinion which expresses the consensus of such minds.

As soon as the location of the World's Columbian Exposition was fixed at Chicago it was felt that no merely material exhibition would answer the demands of the time. The intellectual and moral forces of the nineteenth century having become so potent and active, that there at once arose a demand for their proper presentation in connection with the proposed Exposition. A formal proposal of a series of World's Congresses soon followed, and the evolution of that proposal steadily proceeded until the present time. The primary idea of the project was that many of the leaders of human progress will naturally come to the Exposition of 1893, and that it is due to them that some arrangements be made under which those of similar tastes and callings from the different countries may form the acquaintance of each other and engage in friendly conference on matters of common concern.

This primary idea developed into the secondary thought that to increase the benefits of such acquaintance and conferences and to enlarge the attendance at the Exposition, a reasonable effort should be made to induce a general attendance of those persons who have taken an active part in any of the great fields of human endeavor.

This secondary idea speedily developed into a third—that instead of leaving the intellectual and moral administration of 1893 to occupy a merely incidental relation to the material exhibit, a proper organization should be effected, an adequate and comprehensive plan devised, and a persistent and well directed effort made to crown the Exposition of 1893 by a proper presentation of the achievements of human genius in a series of great assemblies to which the chief apostles of progress in all countries should be invited, and which should be closed with the formation of a series of world-wide fraternities, to promote the future welfare of mankind.

The work of the auxiliary has been divided into nineteen great departments, with more than one hundred divisions in which congresses are to be held. Each division has its own local Committee of Organization, and each committee has its own advisory council, composed of eminent representatives, selected from different parts of the world, who are interested in the subject to which it pertains.

The World's Congresses of 1893 will be held in the permanent Memorial Art Palace, erected on the Lake Front Park, through the co-operation of the Art Institute of Chicago, the City of Chicago, and the Directory of the World's Columbian Exposition. This "World's Congress Art Palace" will have two large audience rooms arranged to seat about three thousand persons each; and more than twenty smaller rooms, which will accommodate from one hundred to seven hundred persons each. Meetings of such a character as to draw a large popular audience will be held in the main audience rooms, while meetings of chapters or sections of different congresses for the discussion of subjects of a more limited interest, will be held in the smaller rooms.

It will thus be possible to have two general congresses and twenty special congresses or conferences in session at the same time, and to have three times as many meetings within a single day by arranging different programmes for morning, afternoon, and evening sessions; but it is not anticipated that so many daily meetings will be required in any department of the World's Congress work, nor that, as a general rule, any congress, or section, will desire to meet more than once or twice in a given day.

No admission fee will be charged to any of the congresses held under the direct auspices of the World's Congress Auxiliary, and all persons interested will be admitted as attending members after having registered in the office of the secretary where tickets may be obtained.

General assignment to the months of the Exposition season of the World's Congresses of 1893, by departments:

MAY.

- III. Medicine and Surgery, commencing
May 29th.

JUNE.

- IV. Temperance, commencing June 5th.
V. Moral and Social Reform, commencing
June 12th.
VI. Commerce and Finance, commencing
June 19th.

JULY.

- VII. Music, commencing July 3d.
VIII. Literature, commencing July 10th.
IX. Education, commencing July 17th.

AUGUST.

- X. Engineering, commencing July 31st.

- XI. Art, Architecture, etc., commencing
July 31st.

- XII. Government, Law Reform, Political
Science, etc., commencing August
7th.

- XIII. General Department, commencing
August 14th.

- XIV. Science and Philosophy, commencing
August 21st.

SEPTEMBER.

- XV. Labor, commencing August 28th.
XVI. Religion, Missions and Church Soci-
eties, commencing September 4th.
XVII. Sunday Rest, commencing Sept. 28th.

OCTOBER.

- XVIII. Public Health, commencing October
13th.
XIX. Agricultural, commencing Oct. 16th.

Congresses have been held as follows:

MAY.

- I. Woman's Progress, commencing May
15th.
II. The Public Press, commencing May
18th.

GENERAL RULES AND REGULATIONS.

Early in the organization of the Exposition rules and regulations were promulgated for the benefit of exhibitors, concessionaires, etc. They are as follows:

1. Exhibitors will not be charged for space. A limited amount of power will be supplied gratuitously. This amount will be settled definitely at the time space is allotted. Power in excess of that allotted gratuitously will be furnished by the Exposition at a fixed price. Demands for such excess must be made before the allotment of space.

2. Any single piece or section of any exhibit, of greater weight than 30,000 pounds, will not be accepted if machinery is required for its installation.

3. Exhibitors must provide, at their own expense, all show cases, cabinets, shelving, counters, fittings, etc., which they may require, and all countershafts, pulleys, belting, etc., for the transmission of power from the main-shafts.

4. Exhibitors will be confined to such exhibits as are specified in their applications. When the allotment of space is definitely made, exhibitors will be notified of their allotment of space and its location, and will be furnished with a permit to occupy the same, subject to the general rules and regulations adopted for the government of the Exposition and the special rules governing the Department in which their exhibits will be made. Permits for space will not be transferable.

5. Special rules will be issued governing each department and the sale of articles within the buildings or on the grounds, but no article shall be sold for removal previous to the close of the Exposition, unless a concession or privilege for the same has been granted by the Committee on Ways and Means. "Privileges" refer to the sale of such goods as are manufactured in order to illustrate a machine or process exhibited. "Concessions" refer to the sale of all goods and operation of attractions from which the securing of revenue is the sole object of the lessees. The removal of exhibits will not be permitted prior to the close of the Exposition.

6. Decorations, signs, dimensions of cabinets, shelving, counters, etc., and the arrangement of exhibits, must conform to the general plan adopted by the Director-General.

7. Reasonable precautions will be taken for the preservation of exhibits; but the World's Columbian Exposition will not be responsible for any damage to, or for the loss or destruction of, an exhibit resulting from any cause.

8. All packages containing exhibits intended for the several Departments must be addressed to the "Director-General, World's Columbian Exposition, Chicago, Illinois, U. S. A." In addition, the following information must be written on the outside of each package:

- (a) Department in which exhibit is to be installed.
- (b) The State or Territory from which the package comes.
- (c) The name and address of the exhibitor.
- (d) The number of the permit for space.
- (e) Total number of packages sent by the same exhibitor.

The serial number must be marked on each package and a list of the contents enclosed in each package. Freight must be prepaid.

9. Favorable terms will be arranged by which exhibitors may insure their own goods. Exhibitors may employ watchmen of their own choice to guard their goods during the hours the Exposition is open to the public. Such watchmen will be subject to the rules and regulations governing the employes of the Exposition; but no exhibitor will be permitted to employ attendants for service in any building, except upon written consent of the Chief of the Department.

10. The expense of transporting, receiving, unpacking and arranging exhibits, as well as their removal at the close of the Exposition, shall be paid by the exhibitor.

11. If no authorized person is at hand to take charge of exhibits within a reasonable time after arrival at the Exposition buildings, they will be removed and stored at the cost and risk of whomsoever it may concern.

12. The installation of heavy articles requiring foundations, should, by special arrangement with the Chief of Construction, begin as soon as the progress of the work on the buildings will permit. The general reception of articles at the Exposition buildings will commence November 1, 1892, and no article will be admitted after April 10, 1893. Space not taken possession of April 1, 1893, will revert to the Director-General for reassignment.

13. If exhibits are intended for competition it must be so stated by the exhibitor, or they will be excluded from examination for award.

14. The Chief of each Department will provide cards of uniform size and character, which may be affixed to exhibits, and on which will be stated only the exhibitor's name and address, the name of the object or article exhibited, and its catalogue number.

15. Articles that are in any way dangerous or offensive, also patent medicines, nostrums, and empirical preparations whose ingredients are concealed, will not be admitted to the Exposition.

16. Exhibitors' business cards and brief descriptive circulars only may be placed within such exhibitor's space, for distribution. The right is reserved to restrict or discontinue this privilege whenever it is carried to excess or becomes an annoyance to visitors.

17. The Chief of each Department, with the approval of the Director General, has the power to order the removal of any article he may consider dangerous, detrimental to or incompatible with the object or decorum of the Exposition, or the comfort and safety of the public.

18. Exhibitors will be held responsible for the cleanliness of their exhibits and the space surrounding the same. All exhibits must be in complete order each day, at least thirty minutes before the hour of opening. No work of this character will be permitted during the hours the building is open to the public. In case of failure on the part of any exhibitor to observe this rule, the Chief of the Department may adopt such means to enforce the same as circumstances may suggest.

19. Sketches, drawings, photographs, or other reproductions of articles exhibited will only be allowed on the joint assent of the exhibitor and the Director-General; but general views of portions of the interiors of the buildings may be made on the approval of the Committee on Ways and Means.

20. Immediately after the close of the Exposition exhibitors must remove their effects, and complete such removal before January 1, 1894. Goods then remaining will be removed and disposed of under the direction of the World's Columbian Exposition.

21. An official catalogue is published in English, French, German and Spanish. The sale of catalogues is reserved exclusively by the Exposition Company.

22. Each person who becomes an exhibitor thereby agrees to conform strictly to the rules and regulations established for the government of the Exposition.

23. Communications concerning applications for space and negotiations relative thereto should be addressed to the "Director-General, World's Columbian Exposition, Chicago, Illinois, U. S. A."

24. The Management reserves the right to construe, amend or add to all rules and regulations whenever it may be deemed necessary for the interests of the Exposition.

GEORGE R. DAVIS,

Director-General.

Award of Medals and Certificates.

Extracts from the adopted report of the Committee on Awards of the World's Columbian Exposition :

The committee recommends that awards shall be granted upon specific points of excellence or advancement, formulated in words, by a board of judges or examiners, who shall be competent experts; and the evidence of these awards shall be parchment certificates, accompanied by bronze medals.

The awards of these boards of judges or examiners will thus constitute an enduring and historical record of the development and progress as represented by the exhibits in question; the parchment certificate will, by sufficient terms of identification, evidence the award, and the bronze medal will serve to the exhibitor as an enduring memento of his success. Those exhibits which in the opinion of the juries and examiners do not possess sufficient excellence or intrinsic development to warrant awards, will simply be scheduled in the General Catalogue of the Exposition.

It is recommended that there should be but one class or kind of medal; that they should be made of bronze; that they should be works of art, and selected from competitive tests by the Committee on Fine Arts of the commission, or the joint committees on fine arts of the commission and the local directory, if that should seem more desirable.

The awards and the appointment of all judges and examiners for the Exposition, by the express terms of the sixth section of the Act of Congress approved April 25, 1890, fall within the exclusive jurisdiction of the commission.

Free Importation of Articles.

The United States Government regulations governing the free importation of articles for exhibition at the Exposition, as issued by the Treasury Department at Washington, were as follows:

1. It is the purpose of this department to secure expedition and security to all articles imported for exhibition at the Chicago Exposition, without the exaction of customs duties, fees or charges, and to arrange the proceedings on entry so as to afford the utmost convenience and despatch.

2. In order to obtain the benefits of this arrangement, every package destined for the Exposition should have affixed to it by the foreign shipper one or more labels representing the flag of the country to which it belongs. This label should be about eight by twelve inches in size, and should bear across the face, in plain black letters, the inscription "Exposition at Chicago." All packages should be plainly marked, as follows: (1) "Collector of Customs, Chicago;" (2) "Exhibits for Columbian Exposition;" (3) Name of consignee or agent at the port of first arrival in the United States; (4) The shipping marks and number of the exhibitor; (5) Name and address of the exhibitor.

3. Every foreign exhibitor will prepare, in duplicate, a statement in the form of an invoice, which shall show the name of the exhibitor, the marks and numbers of the packages, with a description of their contents and a declaration of the quantity and the market value of each separate kind thereof in the country of production. This statement must be signed by the exhibitor, but will require no further verification. One of the invoices will be transmitted by mail to the Collector of Customs at Chicago, and the other to the consignee of the goods at the port of first arrival.

4. As a matter of convenience, it is recommended that all packages intended for the Exposition shall be consigned to an agent or forwarder, or commissioner, at the port of first arrival, who will attend to customs business incident to the transfer of packages from the importing vessel to a bonded route for transportation to Chicago. All the bonded transportation lines will discharge their freight at stations in Chicago to be arranged within the Exposition grounds, and packages marked as suggested in Article 2 may be taken to their respective divisions as soon as they have been identified by the customs officers.

5. (Shows the list of companies bonded for the transportation of merchandise to Chicago, without appraisement.)

6. The consignee of the merchandise at the first port of arrival must present at the custom house the invoice above described, with a bill of lading and an entry in duplicate made out upon the special form to be provided for this purpose by the Treasury Department, which shall show the name of the foreign shipper or owner, the name of the importing vessel, the marks and numbers of the packages, with a statement of the nature of their contents and of their foreign value, as declared in the invoice. The entry must also indicate the bonded route by which the goods are to be transported to Chicago, and must be signed by the consignee. No other declaration will be required. The goods will be consigned, on the customs entry, to "Collector of Customs, Chicago," and there need be no computation of duties upon this entry, but the amount charged against the bond of the transportation company shall be double the invoice value.

7. The collector will thereupon issue a special permit bearing the words "Chicago Exposition," authorizing the transfer of the goods from the ship to the bonded railroad for transportation to Chicago, and will record and file one of the entries in his office and send the other by mail, with the invoice, to the collector at Chicago.

8. The permit will be taken by the agent or consignee to the inspector on board the importing vessel, who will thereupon send the goods, by a cartman duly licensed, to be delivered under the supervision of a customs officer to the transportation company.

9. The consignee will also prepare a manifest of the goods, which, after being duly certified, will be handed to the conductor of the car carrying the same, and a duplicate copy must be sent by mail to the Collector of Customs at Chicago. Upon arrival at Chicago of any car containing such articles, the conductor or agent of the railroad company will report such arrival by the presentation of the manifest to the customs officer designated to receive it, who shall compare the same with the copy received by mail, and superintend the opening of the car, taking care to identify the packages by marks and numbers as described in the manifest. In case of the non-receipt of the manifest, the unloading of cars need not, for that reason, be delayed, but the invoice may be used to identify the packages.

10. Articles sent by foreign governments to the Exposition, which are used solely for government purposes and are not intended for sale, will be admitted to entry at the exterior port

of arrival on certificates of the proper foreign commissioner, without the production of invoice. But it is desired that the estimated value of each package shall be stated on the certificate or the bill of lading, in order that the pecuniary responsibility of the transportation company may be fixed.

11. These regulations will also apply to goods sent to the Exposition from foreign contiguous territory. All articles destined for the Exposition, arriving from Canada on through cars under consular seal, and articles which are sent direct by vessel from any foreign port to Chicago, must be consigned by the foreign shipper to the "Collector of Customs" at that port, and on entry being made, as in the case of goods arriving at the seaboard, a permit will be issued for the transfer of the goods directly to the Exposition grounds.

12. The buildings and space set apart for the purposes of the Exposition are constituted "Constructive Bonded Warehouses and Yards," and all foreign articles placed therein under the supervision of the customs officers, and which have been specially imported for exhibition therein, will be treated the same as merchandise in bond. No warehouse entry will be required at Chicago in order to obtain entrance for such goods, but the latter will be kept under customs supervision in accordance with the general regulations governing merchandise in bonded warehouses, except as herein otherwise provided for. The collector at Chicago will keep a special record, in the form of a warehouse ledger, of every invoice, assigning serial numbers to the same in order of their reception, and the transportation entry received from the collector at the port of arrival will be considered the warehouse entry.

13. After the packages have been placed in the respective positions assigned to them by the officers of the Exposition, they will be opened by an officer of the customs, who shall primarily identify the contents with the invoice only as to quantity and character. Due examination of the contents and appraisement of values will be subsequently made by the appraiser, who shall be furnished with the invoice of the articles to be appraised, and shall indorse his report of appraisement upon such invoice in like manner as if such articles were regularly entered for consumption or warehouse. The entry will then be liquidated, the full amount of duties ascertained, and the whole transaction entered upon the prescribed record. All the proceedings relating to the examination, appraisement and liquidation shall be the same as on ordinary importations.

14. As, under the United States tariff, the cost of packages is made a part of the dutiable value of imported goods, the empty boxes, barrels and casks from which imported articles have been taken in order to be displayed should be carefully preserved so as to be repacked for exportation at the close of the Exposition. Dutiable packing cases not exported will be subject to the payment of duty. It is expected that a place will be provided for the storage of such empty packages, and the latter should be recorded and numbered for identification.

15. Packages containing articles imported for gratuitous distribution, or for actual use and consumption in restaurants, refreshment rooms, etc., must be regularly entered for consumption and duty paid thereon before being delivered by the customs officers.

16. The articles after having been received in the Exposition will remain under the custody of the customs officers, and must not be removed from the place assigned without a permit from the Collector of Customs or the officer who may be designated by him to grant such permit. In no case shall such articles be released from the custody of the customs officers, unless the same shall have been regularly withdrawn for consumption, for warehouse or for export. The requisite number of customs inspectors will be stationed at every place containing foreign exhibits, each of whom will be placed in charge of a section, which shall be numbered and designated as a customs division. A list of the articles entered for exhibit in his section will be furnished to each of such inspectors, who shall retain a copy thereof, certify the original and transmit it to the collector.

17. Sales may be made, during the Exposition, of articles imported for exhibition, but deliveries of the same will be allowed only at the close of the Exposition. For this purpose a regular withdrawal as from bond will be required, and duty must be paid according to law. In case the articles are sold for delivery at some port other than Chicago, a withdrawal may be made for transportation and re-warehouse, duty to be paid at the place of destination. Any exhibitor of articles which shall be sold may authorize withdrawal of the same by the purchaser, such authority to be contained in a written notice to the Collector at Chicago. After the filing of such notice the person specified in the same shall be recognized as entitled to all rights and subject to all the liabilities of the original importer.

18. Withdrawal from bond can not be made for less than one entire package, but in case of accidental damage or destruction it is not intended to assess duties upon such articles as shall not have entered into actual consumption in this country. On articles which shall have suffered diminution or deterioration from incidental handling and necessary exposure, the duty, if paid, will be assessed according to the appraised value at the time of the withdrawal for consumption.

19. At the close of the Exposition all goods intended for exportation will be transported in bond to the seaboard or exterior port, and exported therefrom under the general regulations for immediate export in bond, as modified by special regulations to be in due time provided.

20. Any exhibitor who may import merchandise in excess of that which he desires to place on view in the Exposition may make regular warehouse entry of the same on its arrival at Chicago, whereupon it shall be taken to a United States bonded warehouse and stored without payment of duty, subject to the regulations provided for bonded goods. Withdrawals of merchandise stored under these conditions, if made for the purpose of placing the same within the

Exposition, will be treated under the provisions for entry on arrival at first port of entry, and no duty will be required to be paid. Such merchandise must be delivered at the Exposition, in charge of a customs officer. Should any merchandise be abandoned by the owner at the close of the Exposition, it will be placed in a general order warehouse for twelve months; and, if then unclaimed, will be sold for account of the owner.

21. The privileges granted by virtue of these regulations are intended solely for the benefit of exhibitors at the World's Columbian Exposition, and with the view of relieving them, so far as practicable, of delays and vexations in connection with the customs business pertaining to their importations. Any attempt to take advantage of these regulations in order to evade the tariff laws of the United States, will subject the offender to all the penalties prescribed by these laws, including confiscation of goods and fine and imprisonment.

22. The regulations issued by this department on January 7, 1891, are hereby revoked, and the foregoing adopted in lieu thereof.

CHARLES FOSTER, *Secretary.*

Concessions.

The general rules governing lessees of concessions are as follows:

1. Lessees and such employes or assistants as may be necessary for the proper conduct of the business will have full access to the Exposition grounds, but they will be subject at all times to the General Rules and Regulations of the Exposition, and shall enter at such gates and at such hours as may be designated by the Exposition management.

2. No business under any of the concessions shall be conducted in other than a first-class, orderly manner. No gambling or games of chance will be allowed anywhere within the Exposition grounds.

3. All buildings, stands, or booths, leased or erected for concessions, shall be open at all reasonable hours to the inspection of the Director-General, and such agents as may be designated by the Exposition management.

4. No transferring or sub-letting of any interest in the concessions granted will be allowed without the written consent of the Exposition management.

5. No employe or assistant of lessees of concessions shall enter upon his duties until his name and address have been registered in the office of the Committee of Ways and Means, who will designate an official number which shall attach to said employe or assistant, and such number must be worn conspicuously by said employe or assistant when on duty, and used as the rules may designate.

6. All goods sold must be what they are represented, and no deception will be allowed.

7. Wagon gates will be open at 5 A. M. and closed at 8:30 A. M., for the purpose of admitting supplies to all those having concessions; all supplies must be brought in between those hours. Only such articles as are covered by the concessioner will be admitted without a special permit.

8. All stands, counters and fittings, together with all decoration, to be erected at the expense of the lessee; plans of the above to be subject to the approval of the Director-General.

9. Solicitation for the sale of goods will not be allowed.

10. Concessions will be limited to a given number of the same in each class or branch concerning which concessions are granted.

11. Lessees will be required to keep their premises clean and in complete order at all times, and shall not permit any violence, coarse or insolent language, or unnecessary noise about their premises. Any employes or assistants, wearing the number assigned by the Exposition management, appearing on the grounds at any time intoxicated, making unnecessary noise or using coarse or insolent language, will be deprived of their number and be immediately and permanently expelled from the grounds.

12. Persons procuring concessions to sell foreign goods will be subject to the above rules, in addition to the regulations issued by the Secretary of the Treasury of the United States, for the protection and collection of the revenue.

13. Any person who attempts to sell, or expose for sale, in the Exposition grounds, or in any of the buildings erected thereon, any article whatever, without having first obtained a concession for such purpose, will be forthwith ejected from the Exposition grounds and prosecuted to the full extent of the law.

14. Any violation on the part of lessees of any of the rules governing the Exposition or concessions, will make void their contract at the option of the Exposition managers.

15. All lessees, assistants and their employes must leave the grounds within two hours after the close of the Exposition.

16. Persons procuring concessions will be required to furnish the Exposition management with a good and sufficient bond for the faithful performance of their contract.

17. The Exposition management reserves the right to amend or add to these rules whenever it may be deemed necessary for the interest of the Exposition and the public good.

Vehicles and Supplies.

1. No wagon or vehicle of any kind propelled by animal or other power will be allowed about the grounds during the hours the Exposition is open to the public, save emergency vehicles, such as fire apparatus, and police or hospital patrol wagons, and wagons or carts propelled by man power. This, however, shall not be taken to prohibit the unrestricted use of the official conveyances of the Council of Administration, Director-General, Director of Works, and such others as may from time to time be expressly authorized and permitted under the specific orders of the Council of Administration.

2. All supplies arriving at the Exposition grounds, either by rail, vessel or team, must be delivered to the designated warehouse, and there stored until after the hour of closing the Exposition, when the work of delivering such supplies, etc., will begin by and under the direction of the Transportation department. The charge for this service will be at the rate of six cents per hundred pounds, with twenty-five cents minimum, with no charge for storage unless supplies remain on hand longer than five days. If held in storehouse more than five days, storage rates will be the same as specified in Circular T. D. 47, of January 4th. Orders for the handling and delivery of goods must be filed at the office of the Transportation department of the Terminal Station not later than 5:00 p. m. of each day, of the service to be performed that night.

3. A limited amount of perishable supplies, such as are absolutely needed, will be delivered through the day by carts propelled by man power. The charge for this service will be twelve cents per hundred pounds, under the same regulations as to the use of warehouses as quoted in Paragraph 2.

4. All such service must be performed by team and employes that are in the service of the Exposition, excepting that the Associated, American and Adams Express companies may deliver packages arriving over their lines with their own forces, but under the direction of the Transportation department, at such hours as above designated. The Hyde Park Gas Company may deliver their materials and tools for making repairs to their system under these same regulations.

5. Payments for this service must be made in advance by means of tickets secured from the Department of Collections.

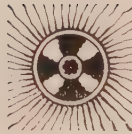
6. Any complaints regarding the service must be entered at the Transportation department office at the Terminal Station.

April 26, 1893

GEO. R. DAVIS,
Director-General.

DEPARTMENTAL EXHIBITS.

ON the following pages will be found a full and comprehensive account of the scope and plan of the several great departments, including descriptions of the respective buildings; portraits of the chiefs; classification of exhibits; list of exhibitors, etc., in the following order: Manufactures, Liberal Arts, Machinery, Agriculture, Electricity, Mines, Mining and Metallurgy, Transportation Exhibits, Horticulture, Fine Arts, Fish and Fisheries, Woman's Building, Ethnology, Forestry; also of Live Stock, except a list of exhibitors.



KENT & STANLEY COMPANY MANUFACTURING JEWELERS

Original Makers of the Celebrated

Seamless Filled Gold Chains



❖ CHARMS ❖

❖ PINS ❖

❖ LOCKETS ❖

BRACELETS

STERLING SILVER NOVELTIES

Do not fail to examine our display in Dept. O, N. E. corner Manufactures Building, Group 98, Class No. 612. The finest exhibit of its kind at the World's Fair.

NEW YORK,
17 MAIDEN LANE.

SAN FRANCISCO,
FELAN BUILDING.

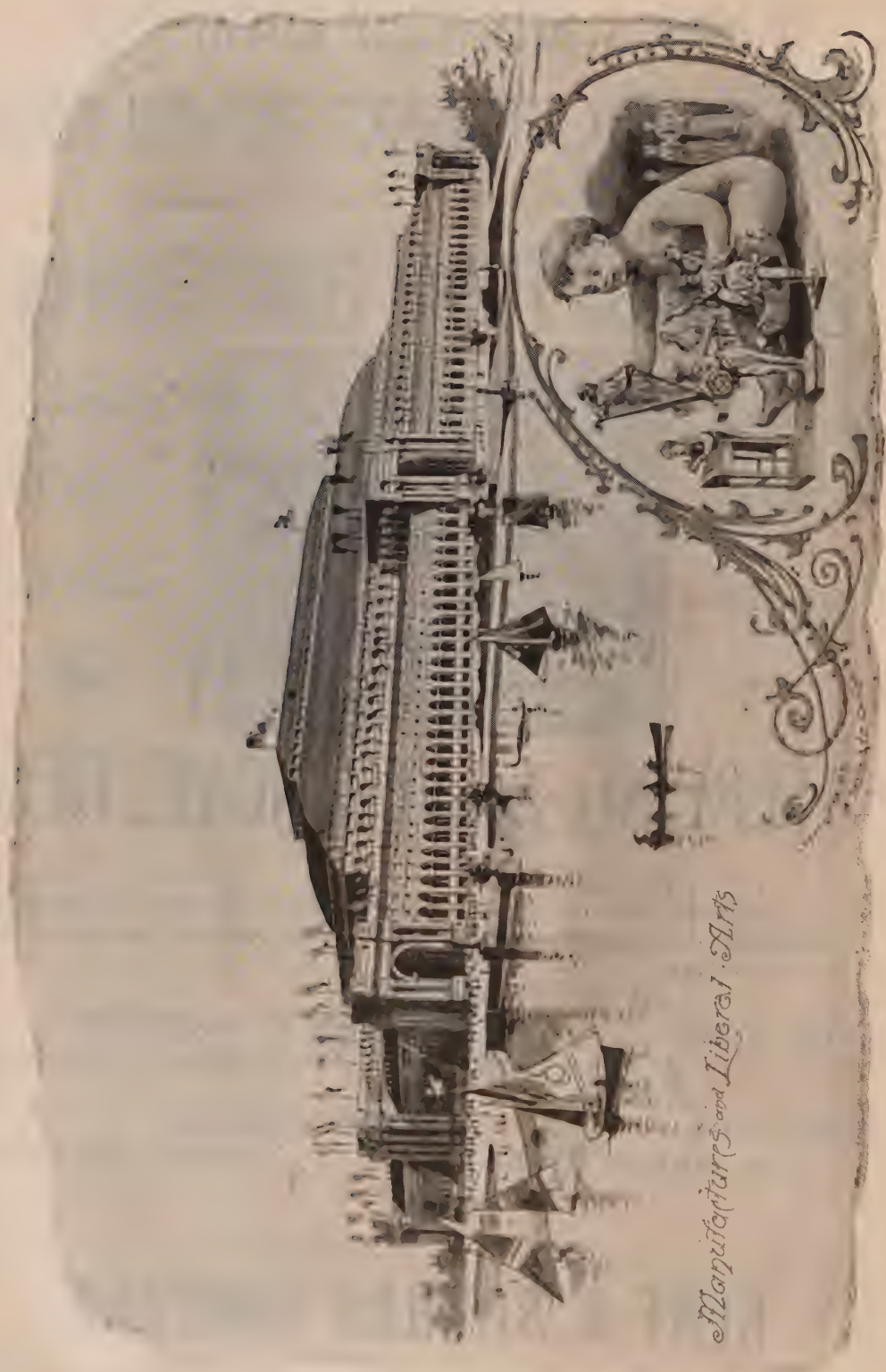
BOSTON,
58 WINTER STREET.

MONTREAL,
TEMPLE BUILDING.

KENT & STANLEY COMPANY

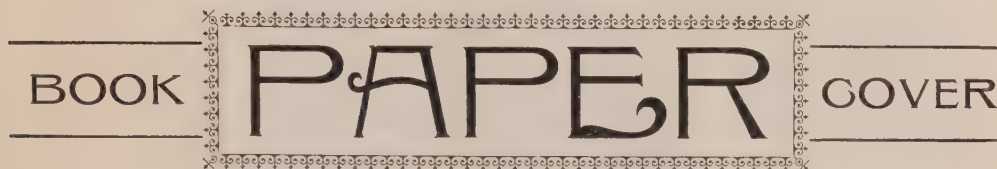
PROVIDENCE, RHODE ISLAND, U. S. A.

Manufactures and Liberal Arts



THE GEO. H. FRIEND PAPER CO.

Manufacturers of All Grades of



CAPACITY, 100,000 POUNDS DAILY.

Mills at West Carrollton and Miamisburg, Ohio.

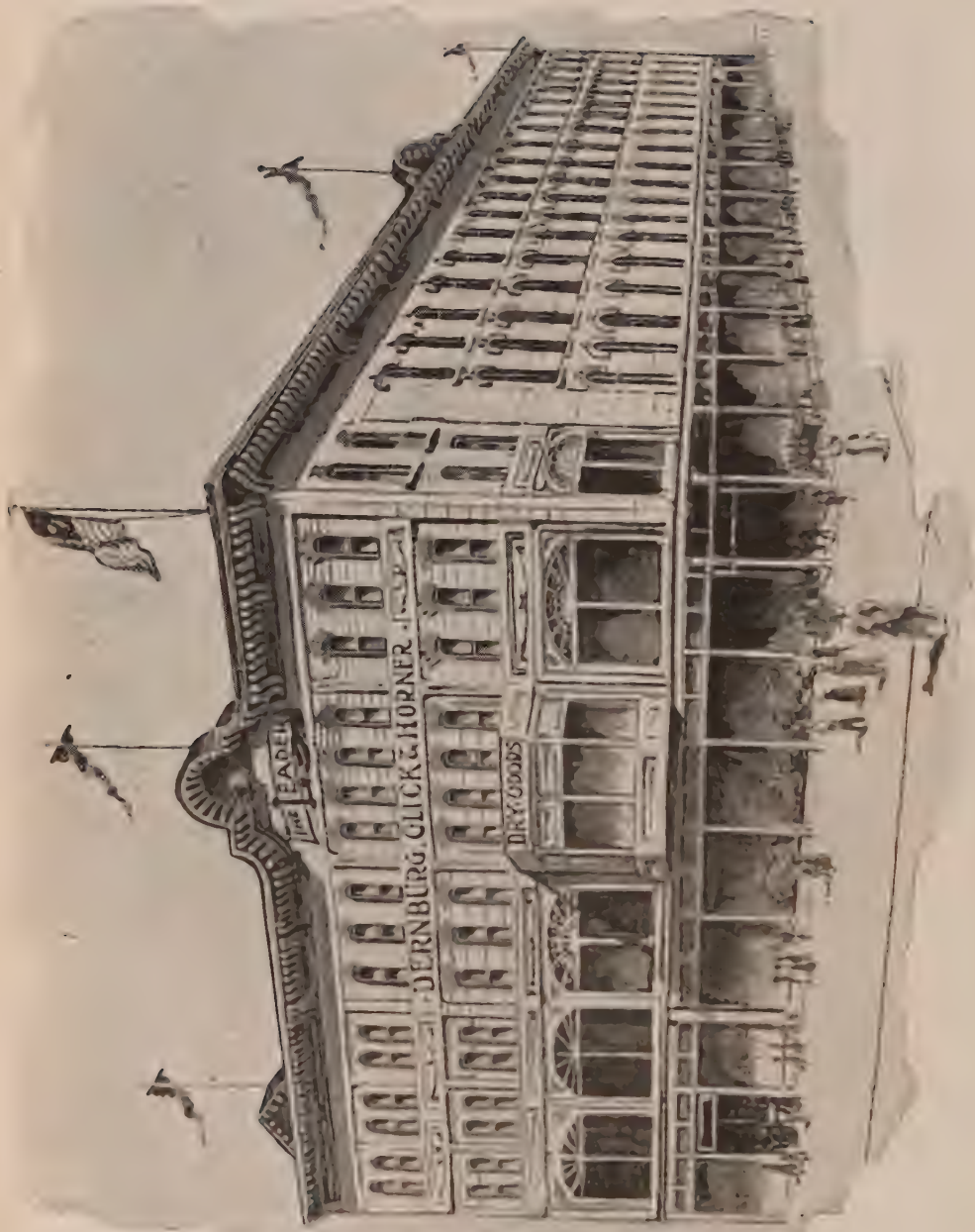
CHICAGO OFFICE:

333 MANHATTAN BUILDING.

A. H. DWIGHT, Manager.

The paper in this book is our special half-tone paper made only by us, and has no equal for printing half-tone cuts other than enameled paper.

PRICES QUOTED ON APPLICATION.



THE LEADING DRY GOODS HOUSE OF CHICAGO, STATE AND ADAMS STREETS,



BRIDGEPORT Elastic Goring

is absolutely unequalled. It has been used for years by thousands of manufacturers, in millions of shoes, with perfect satisfaction.

It is the lightest and most elastic of all Goring, and is fully warranted in every respect for two years.

It looks the best and wears the longest of any Goring manufactured in Europe or America.

It easily surpasses all others except in price.

We are the largest manufacturers of Elastic Goring in the United States, and depend upon the superlative merits of our productions rather than combination with other manufacturers to extend our sales.

We invite correspondence from Manufacturers, Jobbers, and Retailers the world over. Always address

BRIDGEPORT ELASTIC WEB CO.,

Bridgeport, Conn., U. S. A.

(See our Exhibit, Section F, Block V, Column No. 1, Leather and Shoe Trades Building.)



THE MERCK BUILDING.

Specially granted to MERCK & CO., New York,
For the purpose of a representative and comprehensive
Exhibit of Chemicals and Drugs for medicinal
and other uses.

HEADQUARTERS FOR THE MEDICAL AND PHARMACEUTICAL PROFESSIONS, AND THOSE
INTERESTED IN CHEMICAL MANUFACTURES AND THE DRUG TRADE.

Manufacturers of
CHEMICALS AND DRUGS
FOR

MEDICINAL, TECHNICAL OR ANALYTICAL PURPOSES
desiring *first class* representation in the United States of America will find
it to their advantage to correspond with

MERCK & CO.,
71 & 73 William Street, - - - - - NEW YORK.

MERCK & Co. are in direct and constant intercourse with every member
of the medical and pharmaceutical profession, and with every firm of the
drug and chemical trade in the United States.

MERCK & Co. are the largest and best appointed house in America for
the introduction and distribution of Chemicals and Drugs and allied articles
used in Medicine, Pharmacy and the Arts.

Chemische Fabriken
und
Drogen-Handlungen,

welche gute Vertretung in den Vereinigten Staaten von Amerika suchen,
sollten sich wenden an

MERCK & CO.,
71 & 73 William Street, NEW YORK.

Merck & Co. stehen in direktem und regelmäßigem Verkehr mit allen
Ärzten, Apothekern und Drogisten in den Vereinigten Staaten.

Merck & Co. sind das größte und best eingerichtete Haus in Amerika
für die Einführung und den Vertrieb aller Chemikalien und Drogen zu
medizinischem, pharmazeutischem und technischem Gebrauch.

Les Fabricants de
DROGUES ET PRODUITS CHIMIQUES
POUR LA

MÉDECINE, L'INDUSTRIE ET LES ANALYSES
qui désirent des représentants de première classe aux Etats-Unis sont in-
vités à se mettre en relation avec

MERCK & CO.,
71 & 73 William Street, - - - - - NEW YORK.

LA MAISON MERCK & Co. est en relations directes et constantes avec
tous les Médecins, Pharmaciens et Drogistes des Etats-Unis.

LA MAISON MERCK & Co. est la plus importante et la mieux installée
de l'Amérique pour présenter les Drogues et Produits Chimiques, ou
Articles similaires, employés dans la Médecine, la Pharmacie et les Arts.

W. B. CONKEY CO^{MPANY},

GENERAL BOOK MANUFACTURERS,

PUBLISHERS, PRINTERS AND BINDERS.

OFFICE :

341-351 DEARBORN ST.

CHICAGO.

Factories :

63-71 PLYMOUTH PLACE,

78-88 PLYMOUTH PLACE.

TELEPHONES :

HARRISON 400.

HARRISON 447.

The Largest and Most
Thoroughly Equipped

Official Publishers to the

WORLD'S
COLUMBIAN
EXPOSITION.

PRINTING
AND
BINDING

Plant in the
United States.

PUBLISHERS OF THE

WORLD'S COLUMBIAN EXPOSITION

OFFICIAL DIRECTORY,
OFFICIAL CATALOGUES,
CONKEY'S COMPLETE GUIDE, ETC.

SUBSCRIPTION BOOK PUBLISHERS.

The highest point of excellence in
typography and the neatest and most
substantial binding.

Owing to our unsurpassed facilities
we are prepared to execute orders on the
shortest notice and at the lowest prices.



COMPILERS AND PUBLISHERS OF.....

MERCANTILE,
EDUCATIONAL AND
MANUFACTURERS'
CATALOGUES.

DEPARTMENT H—MANUFACTURES.

THE interest of home manufactures and the world-wide rivalry of inventive genius in the production of labor-saving devices and improved machinery to meet the ever growing demand, are fittingly illustrated in the great variety of exhibits in the Department of Manufactures, and make it one of the most interesting and instructive features of the Exposition. The department embraces thirty-five exceptionally large groups, divided into 214 classes of the leading industries, collectively representing the products of the modern machinery and man's skillful handiwork in many forms and designs. Notice to intending exhibitors was given before installation that it was the desire to encourage only such displays of superior excellence as would best exemplify the signal advances made in the several branches of progressive manufacturing industries of home and foreign production, rather than the semblance of a great and varied warehouse display; hence the space allotted has been reduced to the minimum in order to accommodate the greatest number and render justice to all, irrespective of nations, states or cities. It is hoped that every American exhibitor will keep before him the fact only his own re- of his country in product is placed comparison and the best that the present in the same highly developed ence, a cultivated lavish outlay can der exhibits at- seen in the pavil- Commercial Na- pete with us for Their contents fully selected by perts intent only National credit by samples of work branch of industry long. In the For- individual is of im- so far as he can result. His per- sight of but he is here merely be- to enhance the effect of an aggregation of national skill, taste and enterprise. The interest taken in the Exposition by foreign exhibitors is best shown by mentioning that the following nations, among others, are represented in the displays grouped in this department:

Algeria, Argentine Republic, Austria, Belgium, Bolivia, Brazil, British Guiana, British Honduras, Cape Colony, Canada, Ceylon, Chili, China, Colombia, Costa Rica, Cuba, Curacao, Denmark, Dutch Guiana, Dutch West Indies, Ecuador, France, French Guiana, Germany, Great Britain, Guatemala, Hawaiian Islands, Hayti, Honduras, Italy, Japan, Jamaica, Korea, Madagascar, Mexico, New South Wales, Netherlands, Nicaragua, Norway, Orange Free State, Paraguay, Persia, Peru, Porto Rico, Queensland, Russia, Salvador, San Domingo, Siam, Spain, Sweden, Switzerland, Trinidad, Turkey, Uruguay, Venezuela, Zanzibar.

The building constructed for Manufactures and Liberal Arts is notable



JAMES ALLISON, CHIEF.

that he has not putation, but that his keeping. His here to challenge competition with civilized world can line. All that a exposition experi- artistic taste and a accomplish to ren- tractive, will be ions of the great tions which com- our own market. have been care- committees of ex- on sustaining their the best attainable in the particular to which these be- eign exhibits, the portance only in contribute to this sonality is not lost permitted to show cause of his ability

for its symmetrical proportions and is the mammoth structure of the Exposition; indeed, it is the largest building in area ever erected on the western hemisphere and the largest under a roof in the whole world. Despite this fact, every foot of available space is taken and it is even asserted by conservative judges that *more than double the space could have been assigned to most worthy exhibits*, and even then the clamor for "*more room*" would not have been wholly satisfied. The immensity of this building is alone intensely wonderful in its grandeur. It is three times larger than the Cathedral of St. Peter, in Rome, and four times larger than the old Roman Colosseum, which seated 80,000 persons. The central hall, which is a single room without a supporting pillar under its roof, has in its floor a fraction less than eleven acres, and the entire building could comfortably seat 300,000 people. There are 7,000,000 feet of lumber in the floor, and it required five carloads of nails to fasten the 215 carloads of flooring to the joists. The exterior outline covers an area of nearly thirty-two acres, and, including galleries encircling the interior, affords in the aggregate forty-four acres of exhibiting space. This vast structure is covered with an arched roof of steel and glass, affording ample light and ventilation. It measures 1,687 by 787 feet. Height of walls, 66 feet. Height of four center pavilions, 122 feet. Height of four corner pavilions 97 feet. Height of roof over central hall, 237.6 feet. Height of roof-truss, over central hall, 212.9 feet. Height clear, from the floor, 202.9 feet. Span of truss, 382 feet. Span in the clear, 354 feet. Width of truss at base, 14 feet; at hip, 32 feet; at apex, 10 feet. Weight of truss, 300,000 pounds; with purlines, 400,000 pounds. Cost, \$1,700,000. Material—17,000,000 feet of lumber; 12,000,000 pounds of steel in trusses of central hall; 2,000,000 pounds of iron in roof of nave. There are 11 acres of skylights and 40 carloads of glass in the roof. Within the building a gallery 50 feet wide extends around all four sides, and projecting from this are 86 smaller galleries, 12 feet wide, from which visitors may survey the vast array of exhibits and the busy scene below. The galleries are approached upon the main floor by 30 great staircases, the flights of which are 12 feet wide each. "Columbia Avenue," 50 feet wide, extends through the mammoth building longitudinally, and an avenue of like width crosses it at right angles at the center. The building is rectangular in form, and the interior is divided into a great central hall, 380 by 1,280 feet, which is surrounded by a nave, 107 feet wide. It is in the Corinthian style of architecture, and in point of being severely classic excels nearly all of the other edifices. The long array of columns and arches, which its façades present, is relieved from monotony by very elaborate ornamentation. In this ornamentation female figures, symbolical of the various arts and sciences, play a conspicuous and very attractive part. The exterior of the building is covered with staff, which is treated to represent marble. There are four great entrances, one in the center of each façade. These are designed in the manner of triumphal arches, the central archway of each being 40 feet wide and 80 feet high. Surmounting these portals is the great attic story ornamented with sculptured eagles 18 feet high, and on each side above the side arches are great panels with inscriptions, and the spandrels are filled with sculptured figures in bas-relief. At each corner of the main building are pavilions forming arched entrances, which are designed in harmony with the great portals. The building occupies a most conspicuous place on the grounds. It faces the lake, with only lawns and promenades between. North of it is the United States Government Building, south the Harbor, and in-jutting lagoon, and west the Electrical Building and the lagoon separating it from the island. This building is provided with 10,000 electric lights and the aisles are lighted with ornamental lamp-posts bearing shielded arc lights.

Following are extracts from the departmental rules :

Exhibitors must be the manufacturers or producers of the goods or materials intended for exhibition.

Articles that are in any way dangerous or offensive; also patent medicines, nostrums and empirical preparations whose ingredients are concealed, are not admitted.

No fire, inflammable oils nor other combustible material will be permitted in the building.

The flooring must not be altered or removed except by the sanction of the Chief of the Department.

In order to encourage pleasing and attractive effects and add life to the various exhibits, where required to keep them moving, a limited amount of noiseless motor power may be applied, subject to the approval of the Chief of the Department.

The following limits must not be exceeded—Platforms: seven inches above the floor. Railings two feet six inches above the platforms (they must be included within the space assigned to the exhibitor.) Counters: two feet ten inches above the floor, on side next passage-way.

The material to be used for covering counters, screens, or partitions is subject to the approval of the Chief of the Department.

Unless otherwise ordered, all signs must be of a uniform design, which will be prescribed by the Department. They must not be made of muslin, linen, canvas or paper. They must be placed parallel with the frontage or passage-ways of the respective stands or exhibits, and must in no case interfere with the light or view.

An American Glass Factory in full Operation.



AMONG the most interesting exhibits to be seen at the World's Fair is the complete cut-glass manufactory of the **Libbey Glass Co.**

There the many processes of glass manufacturing may be seen, from the mixing of sand, the oxide of lead, the alkalis and the lime, to the latest and most approved methods of cutting and finishing.

The most prominent feature of the industry is the glass blowing department, where the lively gathering boys, thrusting long irons into the white-hot mouth of the crucible, and bringing forth the waxy mass, and the artisans who blow and fashion it into many shapes, may be seen constantly at work at this interesting vocation.

In the glass cutting department forty men are continuously engaged in cutting the most delicate and intricate patterns. This process is very instructive, and may be easily observed by all who may desire.



LIBBEY GLASS CO.'S FACTORY, MIDWAY PLAISANCE.

In the decorating department are skilled artists painting upon glass, which is afterward put into the kilns and fired. Every branch of American manufacture is fully shown in this building.

Probably nothing at the Fair is more interesting than glass spinning and weaving. Spinning wheels six feet in diameter, making from 300 to 500 revolutions a minute, draw from glass rods melted before a blow-pipe the finest threads, which are put into a loom and woven into glass fabric. A large variety of articles are made from this fabric, such as dresses, napkins, bonnets and most beautiful lamp shades.

The visitor will greatly admire the immense crystal display rooms, where can be seen the highest standard of American Cut Glassware; entire new and novel articles, which glitter and shine like diamonds.

This immense building can comfortably accommodate 5,000 people at one time. The ventilation is perfect, making it agreeable for visitors. No one should fail to visit this, one of the most interesting and instructive exhibits at the Fair. This building is located in the Midway Plaisance, adjoining the Illinois Central Railroad on the west.

THERE IS NO CHARGE FOR ADMISSION TO THIS BUILDING.

The First National Bank, Chicago.

CORNER MONROE AND DEARBORN STREETS.

CAPITAL, \$3,000,000.00

SURPLUS, \$3,000,000.00

Statement of Condition, January 1, 1893.

ASSETS.

Loans and Discounts, - - - - -	\$18,062,445.11
Bank Building and other Real Estate, - - - - -	650,000.00
United States Bonds (par value), - - - - -	364,950.00
Other Bonds, - - - - -	1,815,150.31
Bond Premiums, - - - - -	50,565.21
Cash Resources :	
Due from Banks (Eastern Exch.), \$2,915,396.26	
Checks for Clearing House, - - - 1,906,452.12	
Cash on Hand, - - - - - 6,504,506.49	
Due from U. S. Treasurer - - - 35,750.00	
	<u>11,362,104.87</u>
	\$32,305,215.50

LIABILITIES.

Capital Stock Paid in, - - - - -	\$ 3,000,000.00
Surplus Fund, - - - - -	3,000,000.00
Other Undivided Profits, - - - - -	338,154.82
Dividend, - - - - -	90,000.00
Deposits, - - - - -	<u>25,877,060.68</u>
	\$32,305,215.50

A REGULAR BANKING BUSINESS TRANSACTED.

FOREIGN EXCHANGE. ALL CLASSES INVESTMENT BONDS BOUGHT AND SOLD.

CIRCULAR LETTERS OF CREDIT FOR TRAVELERS' USE ISSUED, AVAILABLE
IN ANY PART OF THE WORLD.

Collections Carefully Made and Promptly Accounted For
ON MODERATE TERMS.

SAFE DEPOSIT VAULTS IN BASEMENT.
Entrance on Dearborn St

OFFICERS.

LYMAN J. GAGE, PRESIDENT

R. J. STREET, CASHIER.

JAMES B. FORGAN, VICE-PRESIDENT

HOLMES HOGE, ASSISTANT CASHIER.

FRANK E. BROWN, 2d ASSISTANT CASHIER

DIRECTORS.

SAML. M. NICKERSON.

E. F. LAWRENCE.

S. W. ALLERTON.

F. D. GRAY.

NORMAN B. REAM.

NELSON MORRIS.

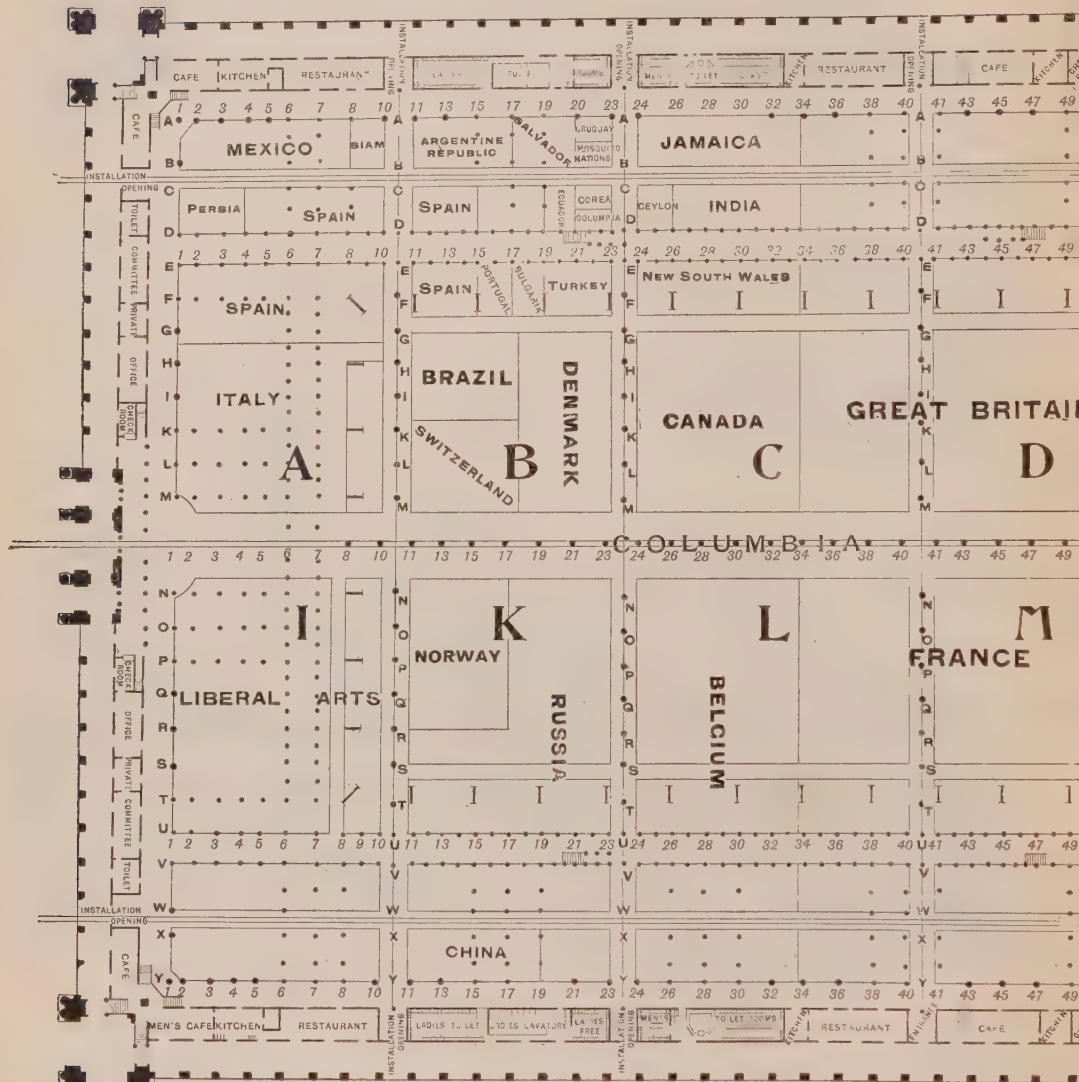
R. C. NICKERSON.

L. J. GAGE.

EUGENE S. PIKE

A. A. CARPENTER

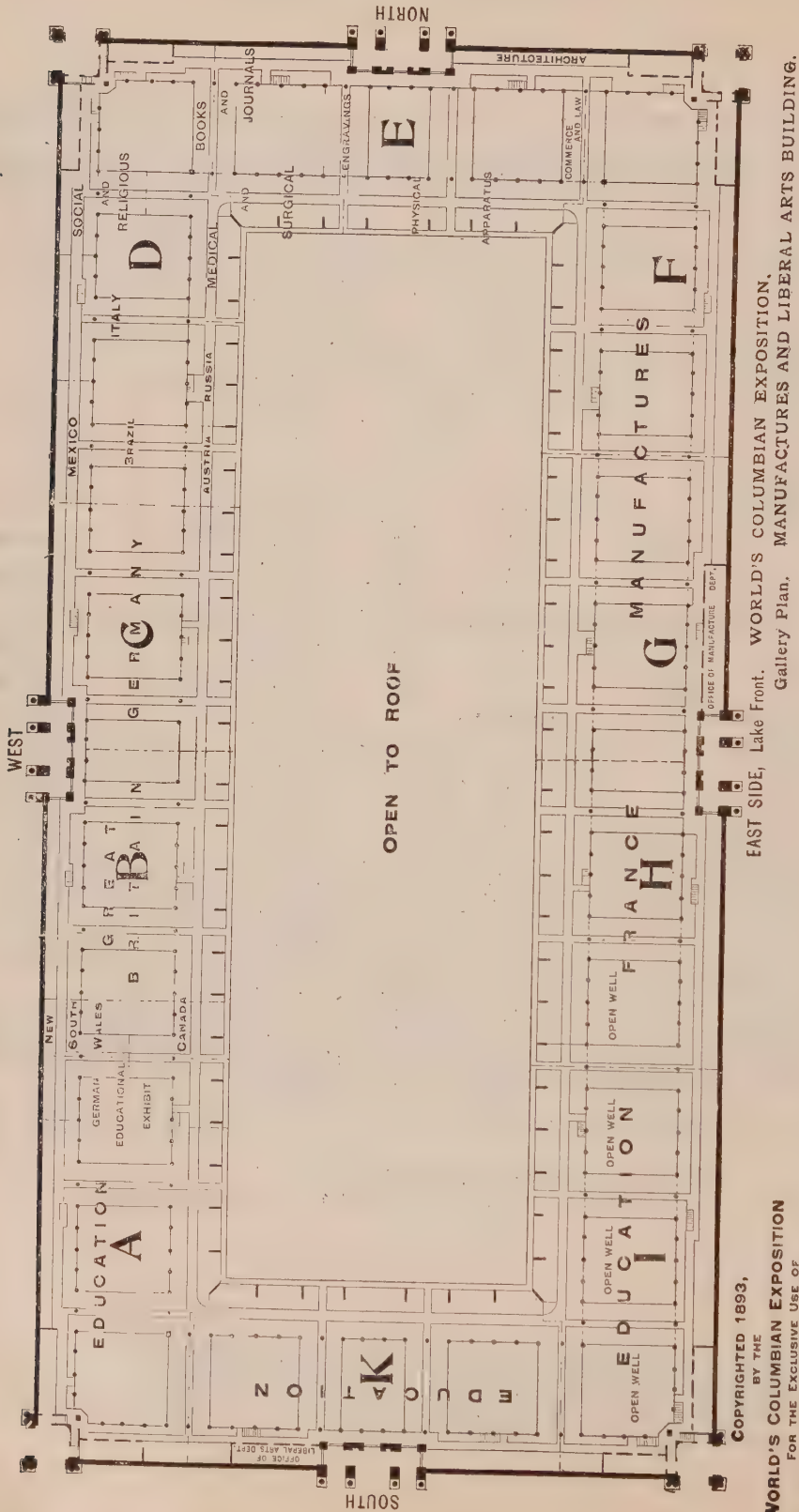
JAS. B. FORGAN.



KEY

The Department of Manufactures occupies all of the ground floor of the building. The Manufactures department also occupies Sections F and G on the gallery floor. The blocks numbered 1 to 4, except Sections A, I, H and Q, which have three blocks, are installed by classified groups, collectively, and the location of each group is indicated in Section N, Block 1. All silk goods, classified as Group 100, are in Section

1, in the southeast corner, which is occupied by the Department of Liberal Arts. It is divided into sixteen sections, lettered from A. to Q, and each section is divided into four smaller sections. On the ground plan these floor divisions can be located. The exhibits in manufactures are grouped by group head. For example, all the exhibits of jewelry, embraced in Group 98, are in the section of the foreign countries is indicated under their entries.



COPYRIGHTED 1893,

BY THE
WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO.

CLASSIFICATION.

MANUFACTURES DEPARTMENT (H).

GROUP 87.

CHEMICAL AND PHARMACEUTICAL PRODUCTS.—DRUGGISTS' SUPPLIES.

- Class 543. Organic and mineral acids.
- Class 544. The alkalis and alkaline earths.—Potash, soda, ammonia, caustic soda, carbonate of soda, lime, magnesia, barytes, etc., with their salts and compounds. Bleaching powders, etc.
- Class 545. Metallic oxides and salts of the metals, and other commercial chemical compounds.
- Class 546. Pure chemicals for chemists' use.
- Class 547. Drugs and pharmaceutical preparations and compounds.
- Class 548. Chemists' and druggists' wares and supplies.
- Class 549. Flavoring extracts, essences, essential oils, toilet soap, perfumery, pomades, cosmetics, etc.
- Class 550. Explosive and fulminating compounds.—Powder, giant powder, etc., shown only by empty cases and packages, "dummy packages," and cartridges, to illustrate the commercial forms.
- Class 551. Pyrotechnics. (In harmless forms, not charged.) Pyrotechnic displays.

GROUP 88.

PAINTS, COLORS, DYES AND VARNISHES.

(See also Group 48.)

- Class 552. Colors and pigments—natural and artificial, dry and ground in oil. Printing inks, writing inks, blacking, cochineal, etc.
- Class 553. White lead and white zinc industry.
- Class 554. Painters and glaziers' supplies.
- Class 555. Artists' colors and artists' materials.

GROUP 89.

TYPEWRITERS, PAPER, BLANK BOOKS, STATIONERY.

- Class 556. Paper, pulp, and paper stock.
- Class 557. Cardboard, cards, pasteboard, binders-board, building-boards, and felts for walls and roofing; for floors, ceilings, and for decorations; embossed-boards, etc. Papier mache, useful articles made from paper.
- Class 558. Wrapping papers, manila paper, paper bags, tissue papers.
- Class 559. Printing paper for books and for newspapers.
- Class 560. Writing papers, bond paper, drawing papers, tracing papers and tracing linen; envelopes; blotting paper.
- Class 561. Blank books; sets of account books, specimens of ruling and binding, including blanks, bill-heads, etc.; book-binding.
- Class 562. Ornamental and decorated paper; marbled papers, etc.
- Class 563. Wall papers, oil papers.
- Class 564. Typewriters, stationery, and stationers' goods; ink-stands, weights, rulers, pens, pencils, filing-cases, letter presses, etc.

GROUP 90.

FURNITURE OF INTERIORS, UPHOLSTERY, AND ARTISTIC DECORATION.

- Class 565. Chairs of all grades, rockers, lounges, settles, etc.
- Class 566. Tables for various purposes—Billiard, card, dining, etc.
- Class 567. Suites of furniture for the hall, parlor, drawing-room, library, dining-room, and for the bed-chamber.
- Class 568. Upholstery for windows, doors; curtains, portieres, etc.
- Class 569. Mirrors and their mountings.
- Class 570. Treatment of porches, doorways, halls, and staircases, mantels, etc.
- Class 571. Floors, ceilings, walls, doors, and windows.
- Class 572. Artistic furnishing, illustrated by completely furnished apartments, with selections of furniture and various objects of adornment from other groups.
- Class 573. Sewing and embroidering. (See also Group 72.)

GROUP 91—CERAMICS AND MOSAICS.

FOR CLAYS AND OTHER MATERIALS. SEE GROUP 46.

- Class 574. Bricks and terra cotta for building purposes, plain and enameled. Terra cotta ware for decorative purposes. Reproductions of ancient Roman and Grecian red ware.

- Class 575. Stoneware and pottery, lead-glazed and salt-glazed ware, Doulton ware.
 Class 576. Earthenware, stone, china, and semi-porcelain ware, faience, etc., with soft glazes, and with high-fire, feld-spathic glazes and enamels.
 Class 577. Porcelain with white or colored body, painted, incised or pate-sur-pate decoration.
 Class 578. Tiles. Plain, encaustic and decorated tiles, bosses, tessaræ, etc., for pavements, mural and mantel decoration, etc.
 Class 579. Mural decoration; reredos and panels; borders for fireplaces and mantels.
 Class 580. Designs for and examples of pavements in tiles and mosaics.

GROUP 92.**MARBLE, STONE AND METAL MONUMENTS, MAUSOLEUMS, MANTELS, ETC.—CASKETS, COFFINS AND UNDERTAKERS' FURNISHING GOODS.**

- Class 581. Marble, stone and metal monuments, and mausoleums and fittings.
 Class 582. Marble and stone fountains, balustrades and miscellaneous ornaments.
 Class 583. Marble, stone and metal mantels and ornaments.
 Class 584. Coffins, caskets and undertakers' furnishing goods.

GROUP 93.**ART METAL WORK—ENAMELS, ETC.**

- Class 585. Art metal work; selected examples of iron forgings, bronzes, bas-reliefs, repousse and chiseled work.
 Class 586. Cloisonné enamels.
 Class 587. Champ levé enamels.
 Class 588. Niello work.

GROUP 94.**GLASS AND GLASSWARE.**

- Class 589. Plate glass in the rough, as cast and rolled, and as ground and polished.
 Class 590. Blown glass, ordinary window glass, bottles, tubes, pipes, etc.
 Class 591. Pressed glass and glassware generally for the table and various purposes; skylights, insulators, etc.
 Class 592. Cut-glass ware for the table and various purposes. Engraved and etched glass.
 Class 593. Fancy glassware—plain, iridescent, opalescent, colored, enameled, painted beaded, gilded, etc. Millefiori and aventurine glass.
 Class 594. Crackled glass in layers, onyx glass, sculptured glass; reproductions of ancient glassware.
 Class 595. Glass mosaics, beads, spun glass, and glass fabrics.

GROUP 95.**STAINED GLASS IN DECORATION.**

- Class 596. Civic and domestic stained glass work, panels, windows, etc.
 Class 597. Ecclesiastical stained glass work.

GROUP 96.**CARVINGS IN VARIOUS MATERIALS.**

- Class 598. Wood carving.
 Class 599. Ivory carving.
 Class 600. Bamboo incised work.
 Class 601. Metal carving and chiseling.
 Class 602. Sculptured and engraved glass.
 Class 603. Sculpturing, carving, and modeling in porcelain. Paste-sur-pate.

GROUP 97.**GOLD AND SILVERWARE, PLATE, ETC.**

- Class 604. Gold and silverware, gilt ware for the table and for decoration.
 Class 605. Silver table ware generally.—Plates, salvers, tureens, bowls, dishes, baskets, candleabra, epergnes, etc.
 Class 606. Knives, forks and spoons.
 Class 607. Fancy bonbon and other spoons; miscellaneous fancy articles in silver.—Snuff-boxes, match-boxes, cane-heads, handles, chatelains, etc.
 Class 608. Ware of mixed metals.—Mokume ware, inlaid and incrustated ware, enameled and niello work.
 Class 609. Plated ware on hard or nickel silver foundation.
 Class 610. Nickel ware, nickel-silver ware, aluminum ware and aluminum-silver ware.
 Class 611. Plated ware on soft metal alloys.

GROUP 98.**JEWELRY AND ORNAMENTS.**

- Class 612. Gold ornaments for the person, plain, chased, or otherwise wrought or enameled, rings, bracelets, necklaces, chains, etc.
- Class 613. Diamonds and various colored gems, as rubies, sapphires, emeralds, chrysoberyls, tourmalines, topazes, etc., mounted in various ornaments.
(For gems in the rough and unmounted in part, see Department E.)
- Class 614. Agates, onyx, jasper, ornaments for the person.
- Class 615. Pastes and imitations of precious stones, mounted or unmounted.
- Class 616. Gold-covered and gilt jewelry and ornaments.

GROUP 99.**HOROLOGY—WATCHES, CLOCKS, ETC.**

(See also Group 151.)

- Class 617. Watches of all kinds.
- Class 618. Watch movements and parts of watches.
- Class 619. Watch-cases.
- Class 620. Watch-makers' tools and machinery in part. (For machines requiring power, see Department F.)
- Class 621.* Clocks of all kinds.
- Class 622. Clock movements.
- Class 623. Clock-making machinery.
- Class 624. Watchmen's time registers.

GROUP 100.**SILK AND SILK FABRICS.**

- Class 625. Raw silk as reeled from the cocoon; thrown or twisted silks in the gum; organzine, tram, spun-silk yarn.
- Class 626. Thrown or twisted silks, boiled off or dyed, in hanks, skeins or on spools; machine twist and sewing-silk.
- Class 627. Spun-silk yarns and fabrics and the materials from which they are made.
- Class 628. Plain woven silks, lute-strings, sarsnets, satins, serges, foulards, tissues for hat and millinery purposes, etc.
- Class 629. Figured-silk piece goods, woven or printed. Upholstery silks, etc.
- Class 630. Crape, velvets, gauzes, cravats, handkerchiefs, hosiery, knit goods, laces, scarfs, ties, veils; all descriptions of cut and made-up silks.
- Class 631. Ribbons—plain, fancy and velvet.
- Class 632. Bindings, braids, cords, galloons, ladies' dress trimmings, upholsterers', tailors', military and miscellaneous trimmings.

GROUP 101.**FABRICS OF JUTE, RAMIE AND OTHER VEGETABLE AND MINERAL FIBRES.**

- Class 633. Jute cloth and fabrics, plain and decorated.
- Class 634. Ramie and other fabrics.
- Class 635. Mats and coarse fabrics of grass, rattan, cocoanut and bark; mattings, Chinese, Japanese, palm-leaf, grass and rushes; floor cloths of rattan and cocoa-nut fibre, aloe fibre, etc.
- Class 636. Floor oil-cloths, and other painted and enameled tissues, and imitations of leather with a woven base.
- Class 637. Woven fabrics of mineral origin—fine wire-cloths, sieve-cloth, wire screen, bolting cloth. (See also Group 117.) Asbestos fibre, spun and woven, with the clothing manufactured from it. Glass thread, floss and fabrics. (See also Class 595.)

GROUP 102.**YARNS AND WOVEN GOODS OF COTTON, LINEN AND OTHER VEGETABLE FIBRES.**

- Class 638. Cotton fabrics.—Yarns, twines, sewing-cotton, tapes, webbings, battings, waddings, plain cloths for printing and converting, print cloths, brown and bleached sheetings or shirtings, drills, twills, sateens, gingham, cotton flannels, fine and fancy woven fabrics, duck, ticks, denims, stripes, bags, and bagging. Upholstery goods.—Tapestries, curtains and thenilles.
- Class 639. Linen fabrics.—Linen thread, cloths and drills, plain and mixed; napkins, tablecloths, sheetings, shirtings, etc.; cambrics, handkerchiefs, and other manufactures of linen.

GROUP 103.

WOVEN AND FELTED GOODS OF WOOL AND MIXTURES OF WOOL.

- Class 640. Woolen and worsted fabrics—woolen yarns, union or merino worsted tops, noils and yarns, shoddy and mungo.
- Class 641. Woolen goods.—All wool woolen cloths, doe-skins, cassimeres, indigo flannels and broadcloth, overcoatings, cloakings and kerseys, flannels, dress goods, etc., for both men and women.
- Class 642. Blankets, robes, traveling rugs, horse blankets, shawls, bunting, etc.
- Class 643. Worsted goods.—Coatings, serges, suitings, cashmeres, etc.
- Class 644. Cotton and woolen-mixed woven goods.—Unions, tweeds, chevots, flannels, linseys, blankets, etc.
- Class 645. Woven on cotton warps.
- Class 646. Upholstery goods.
- Class 647. Sundries and small wares, webbings and gorings, bindings, beltings, braids, galloons, fringes and gimps, cords and tassels, and all elastic fabrics, dress trimmings, embroideries, etc.
- Class 648. Felt goods, felt cloths, trimming and lining felt, felt skirts and skirting, table and piano covers, felts for ladies' hats, saddle felts, druggists, and endless belts for printing machines, rubber shoe-linings and other foot wear, hair feltings.
- Class 649. Carpets and rags, ingrains (two-ply and three-ply) and art carpets, tapestry and body Brussels, tapestry velvet, Wilton or Wilton velvet, Axminster, tapestry Wilton, Moquette, ingrain and Smyrna rugs, other woolen rugs, rag carpets.
- Class 650. Wool hats of every description.
- Class 651. Fabrics of hair, alpaca, goat's hair, camel's hair, etc., not otherwise enumerated.

GROUP 104.

CLOTHING AND COSTUMES.

- Class 652. Ready-made clothing—Men's and boys'.
- Class 653. Dresses, gowns, habits, costumes.
- Class 654. Hats and caps.
- Class 655. Bonnets and millinery.
- Class 656. Boots and shoes.
- Class 657. Knit goods and hosiery, woven gloves, gloves of leather and skins.
- Class 658. Shirts, collars, cuffs, cravats, suspenders, braces, and appliances.
- Class 659. Sewing machines for domestic purposes.

GROUP 105.

FURS AND FUR CLOTHING.

- Class 660. Furs and skins, dressed and tanned. Of the cat tribe, of the wolf tribe, of the weasel tribe, of the bear tribe, of the seal tribe. Fur seals—Alaska, Oregon, South Georgia, Shetland and Siberia, undressed, plucked and dyed. Hair seals—Greenland and Labrador seals, spotted seals, silver seals, harp seals, saddle-back. Furs of rodent animals—squirrels, chinchilla, beaver, hares, rabbits, and other fur-bearing animals. Birds' skins treated as furs. Swans and swan's down. Skins. Goose and goose down used as swan's down. Grebe, eider-down, and penguin.
- Class 661. Fur mats and carriage or sleigh robes.
- Class 662. Fur clothing.
- Class 663. Fur trimmings.

GROUP 106.

LACES, EMBROIDERIES, TRIMMINGS, ARTIFICIAL FLOWERS, FANS, ETC.

- Class 664. Laces of Linen and cotton, of silk, wool or mohair, made with the needle or the loom; silver and gold lace.
- Class 665. Embroideries, crochet-work, etc.; needle-work.
- Class 666. Artificial flowers for trimming and for decoration of apartments.
- Class 667. Fans.
- Class 668. Trimmings in variety, not otherwise classed. Buttons, hooks and eyes, pins and needles.
- Class 669. Art embroidery and needlework.
- Class 670. Tapestries, handmade.
- Class 671. Tapestries, machine work.

GROUP 107.

HAIRWORK, COIFFURES AND ACCESSORIES OF THE TOILET.

- Class 672. Hairwork, as souvenirs and ornaments.
- Class 673. Coiffures, wigs, switches, etc.
- Class 674. Barbers' and hairdressers' tools and appliances.
- Class 675. Combs, brushes. (See also class 549.)

GROUP 108.

TRAVELING EQUIPMENTS—VALISES, TRUNKS, TOILET CASES, FANCY LEATHER WORK, CANES, UMBRELLAS, PARASOLS, ETC.

- Class 676. Tents, shelters, and apparatus for camping, camp stools, etc., hampers, baskets, etc.
- Class 677. Shawl and rug straps and pouches, gun cases.
- Class 678. Valises of various materials, dress-suit cases, satchels, handbags, etc.; toilet articles.
- Class 679. Trunks of leather, paper, canvas and of wood and metal.
- Class 680. Fancy bags, pouches, purses, card cases, portfolios, pocket-books, cigar cases, smoking pipes, cigar-holders, etc.
- Class 681. Canes.
- Class 682. Umbrellas and parasols.

GROUP 109.

RUBBER GOODS, CAOUTCHOUC, GUTTA PERCHA, CELLULOID AND ZYLONITE.

- Class 683. Clothing; mackintoshes, capes, coats, boots, shoes, hats, etc.
- Class 684. Piano and table covers, horse covers, carriage cloth.
- Class 685. Stationers' articles.
- Class 686. Druggists' articles, toilet articles.
- Class 687. Medical and surgical instruments. (See also Group 148.)
- Class 688. House-furnishing articles, mats, cushions.
- Class 689. Hose, tubes, belting, packing.
- Class 690. Insulating compounds.
- Class 691. Toys of rubber.
- Class 692. Gutta percha fabrics.

GROUP 110.

TOYS AND FANCY ARTICLES.

- Class 693. Automatic and other toys and games for the amusement and instruction of children.
- Class 694. Bonbons, fancy boxes and packages for confectionery.
- Class 695. Miscellaneous fancy articles not especially classed.

GROUP 111.

LEATHER AND MANUFACTURES OF LEATHER.

- Class 696. Hides and skins.
- Class 697. Tanned leathers; belting, grain and harness leather; sole leather; calf, kip and goat skins; sheep skins.
- Class 698. Curried leathers.
- Class 699. Patent and enameled leathers; morocco.
- Class 700. Alligator, porpoise, walrus and kangaroo leather.
- Class 701. Russia leathers.
- Class 702. Oil leathers, wash leather, and all other varieties of leather not before named.
- Class 703. Parchment for commissions, patents, deeds, diplomas, etc. Vellum for similar purposes, and for books and book-binding; for drums and tambourines; for gold-beaters' use, etc.
- Class 704. Leather belting.
- Class 705. Embossed leather for furniture, wall decoration, etc.
(For trunks, see Class 679. For harness, saddlery, etc., see Class 523.)

GROUP 112.

SCALES, WEIGHTS AND MEASURES.

(See also Group 151.)

- Class 706. Scales for commercial use in weighing groceries, produce and merchandise. Counter scales, etc.; portable platform scales.
- Class 707. Scales for weighing heavy and bulky objects, as hay, ice, ores, coal, railway cars, etc.
- Class 708. Druggists' and prescription scales.
- Class 709. Bullion scales. Assayers' and chemists' scales. (See also Class 408.)
- Class 710. Postal balances.
- Class 711. Gas and water meters.
- Class 712. Commercial weights and sets of weights—avoirdupois, troy and apothecaries', with the weights of the metric system.
- Class 713. Commercial examples of the measures of capacity, for solids and fluids—measuring glasses for the kitchen and for the laboratory.

GROUP 113**MATERIAL OF WAR; ORDNANCE AND AMMUNITION. WEAPONS AND APPARATUS OF HUNTING, TRAPPING, ETC.; MILITARY AND SPORTING SMALL ARMS.**

- Class 714. Military small-arms, rifles, pistols and magazine-guns, with their ammunition.
- Class 715. Light artillery, compound guns, machine guns, mitrailleuses, etc.
- Class 716. Heavy ordnance and its accessories.
- Class 717. Knives, swords, spears and dirks.
- Class 718. Fire-arms used for sporting and hunting; also other implements for same purpose. (See also Group 161.)

GROUP 114.**LIGHTING APPARATUS AND APPLIANCES.**

- Class 719. Lamps for burning petroleum, burners, chimneys, shades, table lamps, hanging lamps.
- Class 720. Lanterns, coach lamps, street and special lights and lanterns.
- Class 721. Illuminating gas; fixtures, burners and chandeliers.
- Class 722. Electroliers and electric lamps.
- Class 723. The "lucigen" and similar lighting apparatus.

GROUP 115.**HEATING AND COOKING APPARATUS AND APPLIANCES.**

- Class 724. Fire-places, grates, and appurtenances for burning wood, coal or gas.
- Class 725. Hot-air heating furnaces.
- Class 726. Steam heaters, hot-water heaters, radiators, etc.
- Class 727. Stoves for heating, cooking stoves, kitchen ranges, grills, roasting jacks, ovens, etc. Stove polish.
- Class 728. Gas burners for heating, gas logs, gas stoves, etc.
- Class 729. Petroleum stoves.
- Class 730. Kitchen utensils and other miscellaneous articles for household purposes.

GROUP 116.**REFRIGERATORS, HOLLOW METAL WARE, TINWARE, ENAMELED WARE.**

- Class 731. Refrigerators. Soda and aerated water fountains and appliances.
- Class 732. Cast hollow-ware—kettles, pots, etc.
- Class 733. Hollow-ware of copper, nickel, tin-plate and iron; bells.
- Class 734. Enameled ware, granite ware and porcelain-lined ware. Enameled letters and signs.

GROUP 117.**WIRE GOODS AND SCREENS, PERFORATED SHEETS, LATTICE WORK, FENCING, ETC.**

(See also Group 65.)

- Class 735. Wire-cloth of brass or of annealed iron and steel.
- Class 736. Wire-cloth of special alloys, as aluminum-bronze wire, etc.
- Class 737. Sieves of various grades and materials.
- Class 738. Screens for special purposes.
- Class 739. Perforated metal plates.
- Class 740. Artistic lattice work.
- Class 741. Wire netting.
- Class 742. Wire fencing. (For trellis work for gardens and flowers, see also Group 26.)

GROUP 118.**WROUGHT-IRON AND THIN METAL EXHIBITS.**

- Class 743. Wrought-iron gates, railings, crestings and artistic forgings, not otherwise specifically classed. (See also Department K.)
- Class 744. Repousse, hammered and stamped metal ornaments used for buildings, bridges and other structures.
- Class 745. Beams, girders, columns, angle-irons, etc.
- Class 746. Horse-shoes and crude forgings.

GROUP 119.**VAULTS, SAFES, HARDWARE, EDGE TOOLS, CUTLERY.**

- Class 747. Builder's hardware. Locks, latches, spikes, nails, screws, tacks, bolts, hinges, pulleys; furniture fittings; ship's hardware and fittings.
- Class 748. Axes, hatchets, adzes, etc.
- Class 749. Edge tools of various descriptions.
- Class 750. Saws, files.
- Class 751. Cutlery—knives, scissors, shears, razors, etc.; table cutlery.
- Class 752. Vaults, safes and appliances; machinists' and metal workers' tools.

GROUP 120.

PLUMBING AND SANITARY MATERIALS.

- Class 753. Bath tubs, bathing appliances and attachments.
Class 754. Water closets, syphons, flushing tanks; apparatus and receptacles for ventilation and sewerage.
Class 755. Porcelain laundry tubs, basins, cocks, drains and other appliances.
Class 756. Plumbers' and gas fitters' hardware and miscellaneous appliances.

GROUP 121.

MISCELLANEOUS ARTICLES OF MANUFACTURE NOT HERETOFORE CLASSED.



TRANSPORTATION BUILDING, WORLD'S FAIR. NINE OTIS ELEVATORS.
(ALSO FOUR OTIS ELECTRIC ELEVATORS CARRYING VISITORS TO ROOF OF MANUFACTURES AND LIBERAL ARTS BUILDING.)



WASHINGTON MONUMENT.
ONE OTIS ELEVATOR.

Otis Brothers & Co's. Offices.

ATLANTA.	NEW YORK CITY.
BOSTON.	PHILADELPHIA.
BUFFALO.	PITTSBURGH.
HELENA.	SALT LAKE CITY.
LOS ANGELES.	SAN FRANCISCO.
MONTREAL.	TORONTO, ONT.
MEXICO CITY.	WASHINGTON, D.C.

Hale Elevator Co.

(ERECTING OTIS ELEVATORS.)

CHICAGO.	MINNEAPOLIS.
DETROIT.	NEW ORLEANS.
KANSAS CITY.	ST. LOUIS.



EIFFEL TOWER, PARIS.
TWO OTIS ELEVATORS.



NORTH HUDSON COUNTY RAILWAY,
WEEHAWKEN, N. J.
THREE OTIS ELEVATORS.

Otis Elevator Co., Ltd.

AMSTERDAM.	LIVERPOOL.
BERLIN.	LONDON.
BIRMINGHAM	MADRID.
BRUSSELS.	MANCHESTER
GENEVA.	PARIS.
GLASGOW.	ROME.
LISBON.	STOCKHOLM.
	ZURICH.

Austral-Otis Elevator Co.

ADELAIDE.
BRISBANE.
MELBOURNE.
NEW ZEALAND.
SYDNEY.



CATSKILL MOUNTAIN INCLINE RAILWAY.

OTIS BROTHERS & CO.,

General Offices, 36 and 38 Park Row, New York.

(The Largest Elevator Works in the World.)

Elevators operated by Hydraulic, Steam, Electric, or Belt Power.

Also, Builders of the **Otis Electric Pump**, self-regulating. Can be attached to any electric light line.

Department H.--Manufactures.

UNITED STATES

GROUP 87.

Chemical and Pharmaceutical Products
—Druggists' Supplies.

Exhibits in this group are installed in section Q, block 1, north.

1. Alien's, J. J., Sons, Philadelphia. Phosphorus and associated chemicals. 546
2. Austrain, Lena G., Chicago. Hair tonic and lotion. 549
3. Baker Castor Oil Company, New York. Camphor. Dept. A 548
4. Baldwin, B. D., & Co., Chicago. Perfumes. 549
5. Bower, Henry, & Son, Philadelphia. Chemical alkalies. 544
6. Burnett, Joseph, & Co., Boston. Flavoring extracts, perfumery and color pastes. 549
7. Buttermilk Toilet Company, Chicago. Soap. 549
8. Cobb, Mary E. Manicure goods and toilet preparations 548
9. Cheesebrough Manufacturing Company, New York.
 - a Medicinal preparations. 547
 - b Soaps; toilet preparations, etc. 549
10. Dodge & Olcott, New York.
 - a Drugs and chemicals. 547
 - b Essential oils. 549
11. Durkee, E. R., & Co., New York. Flavoring extracts. 549
12. Fritzsche Bros., New York. Essential oils. 549
13. Gordon, W J M., Chemical Company, Cincinnati. Glycerine. 546
14. Gribble & Nash, New York. Refined camphor. 544
15. Hotchkiss, H. G., Sons, Lyons, N. Y. Essential oils. 549
16. India Alkali Works, Boston. Alkalies and alkaline earths. 544
17. Kirk, J. S., & Co., Chicago. Soaps, perfumery and glycerine. 549
18. Krembs & Co., Chicago.
 - a Chemical preparations. 546
 - b Pharmaceutical and technical preparations. 547
19. Ladd & Coffin, New York. Perfumery, cologne and sachet powder. 549
20. Lazell, Dalley & Co., New York. Perfumery. 549
21. Lorenz, George, Toledo, Ohio. Perfumery and toilet articles. 549
22. Low's, Robert, Son, Brooklyn, N. Y. Toilet soap and perfumeries. 549
23. Marx & Rawolle, New York. Glycerine. 547
24. Melzer, A., & Co., Evansville, Ind. Soaps. 549
25. Moulie, E., Jacksonville, Fla. Perfumery and raw materials. 549
26. Morgan, Enoch, Sons, Chicago. Scouring soap. 549
27. Osterhout, Mrs. E. A., Chicago. Toilet soap. 549
28. Palmer, Solon, New York. Perfumery and toilet soaps. 549
29. Pennsylvania Salt Manufacturing Company, Philadelphia. Alkalies and alkaline earth. 544
30. Powers & Weightman, Philadelphia. Chemicals. 546
31. Preston, Andrew P., Portsmouth, N H. Pharmaceutical specialties and toilet preparations. 549
32. Putnam Manufacturing Company, St. Louis. Toilet preparations. 549
33. Remmey, Richard C., Philadelphia. Chemical stoneware. 548
34. Ricksecker, Theo., New York. Perfumery and toilet goods. 549
35. Rosengarten & Sons, Philadelphia. Chemicals. 546
36. Roessler & Hasslacher Chemical Co., New York. Chemicals. 546
For exhibit see page 425.
37. Todd, Albert M., Kalamazoo, Mich.
 - a Chemicals. 546
 - b Drugs. 547
 - c Essential oils. 549
38. Zehring Company, Chicago. Perfumes and toilet goods. 549

GROUP 88.

Paints, Colors, Dyes and Varnishes.

Exhibits in this group are installed in Sec. G, Block 2, north, and Sec. H, Block 1, south.

39. Arnstein, Eugene, Chicago. Bronze powder, paints, brushes, etc. G-2-No. 555
40. Berry Bros., Ltd., Chicago. Varnishes. H-1-So. 552
41. Bridgeport Wood Finishing Company, New Milford, Conn. Paints, fillers, stains and polishes. H-1-So. 552
42. California Ink Company, Santa Paula, Cal. Printing inks. G-2-No. 552
43. Caws Pen & Ink Co., New York. Inks. G-2-No. 552
44. Chicago Varnish Company, Chicago. Varnish and fossil gums. H-1-So. 552

DEPARTMENT H.—MANUFACTURES.

45. DeGolyer, Watts, Company, Chicago. Varnishes. H-1-So. 552
46. Dexter Bros., Boston. Shingle stain. H-1-So. 552
47. Dunham, G. D., Chicago. Glaziers' diamonds. G-2-No. 554
48. Egyptian Lacque M'f'g Co., New York. Lacquers and varnishes. 554
49. Gerts, Lombard & Co., Chicago. Paint brushes, etc. G-2-No. 554
50. Hall, Fannie E., New York. Ceramic colors. 553
51. Heath & Milligan Manufacturing Company, Chicago. Paints and supplies. H-1-So. 552
52. Hebblewhite Manufacturing Company, Buffalo, N. Y. Stove polish. 552
53. International Ultramarine Works, New York. Ultramarine blue. G-2-No. 552
54. Johns, H. W., Manufacturing Company, New York. Paints, oils and stains. H-1-So. 552
55. Leidel, Henry, New York. Artists' colors and materials. G-2-No. 555
56. Masury, John W., & Son, Chicago.
a Varnishes, japans and stains H-1-So. 552
b White leads. 553
c Artists' colors. 555
57. O'Brien Varnish Company, South Bend, Ind. Oils, varnishes and lacquers. G-2-No. 552
- For exhibit see page 358.
58. Rinald Bros., Philadelphia. Paints applied to a wooden windmill. H-1-So. 552
59. Rubber Paint Company, Chicago. Paints and materials. H-1-So. 552
60. Scientific Art & Decorative Co., New York. Decorative paint. 554
61. Senour Manufacturing Company, Chicago. Paints and colors. G-2-So. 552
62. Thomas, L. H., Company, Chicago. Inks; mucilage; bluing. G-2-No. 552
63. Valentine, Lawson, Company, New York. Varnishes and colors. H-1-So. 552
64. Valentine & Co., Chicago. Varnishes, colors and material. H-1-So. 552
65. Weber, F., & Co., Philadelphia. Artists' materials. G-2-No. 555
66. Wiggin & Stevens, Malden, Mass. Sandpaper. G-2-No. 554
67. Whiting, John L., & Son, Boston. Brushes. G-2-No. 554
68. Woods, Henry, Sons Company, Boston. Paints and colors. G-2-No. 552
72. Auto-typograph Co., Chicago. An instrument for copying handwriting and typewriting. 564
73. Bardeen Paper Company, Otsego, Mich. Paper materials. Gal. F. 556
74. Blickensderfer M'f'g Co., New York. Typewriters 564
75. Book Typewriter Co., Rochester, N. Y. Typewriter. 564
76. Brown, L. L., Paper Company, Adams, Mass. Ledger and record paper. Gal. F. 560
77. Bushnell, Alvah, Philadelphia. Copying books and office supplies. Gal. F. 564
78. Crandall Machine Company, Groton, N. Y. Typewriters. Gal. F. 564
79. Carey Bros., Philadelphia. Wall paper. N-3 563
80. Crane Bros., Westfield, Mass. Linen record and writing paper. Gal. F. 560
81. Crane, Z. & W. M., Dalton, Mass. Writing paper and stationery. Gal. F. 560
82. Crane & Co., Dalton, Mass. Bank note, bond and parchment paper. Gal. F. 560
83. Crosby Paper Co., Marion, Ind. Strawboard. 557
84. Columbia Typewriter Manufacturing Company, New York. Typewriter. Gal. F. 564
85. Crown Pen Company, Chicago. Fountain and gold pens. Gal. F. 564
86. Cyclostyle Company, New York. Duplicators, stands and cabinets. 564
87. Dennison Manufacturing Company, Chicago. Stationers' goods; tissue paper articles. Gal. F. 557
88. Densmore Typewriter Company, New York. Typewriters. Gal. F. 564
89. Denver Paper Mills, Denver, Col. Paper. 556
90. Dick, A. B. Co., Chicago. Typewriters, mimeograph, letter files. Gal. F. 564
91. Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils; models of graphite industry. Gal. F. 564
92. Electrose Manufacturing Company, Chicago. Inkstands, paper weights, etc. Gal. F. 564
93. Essex Typewriter, New York. Typewriters. 564
94. Esterbrook Steel Pen Manufacturing Company, Camden, N. J. Metallic pens and penholders. Gal. F. 564
95. Foley, John, New York. Pens, pencils, penholders, etc. Gal. F. 564
96. Franklin Manufacturing Company, Rochester, N. Y. Lumber and shipping crayons. Gal. F. 564
97. Grieshaber, B., Chicago. Gold pens; picks; pencils; fountain pens. Gal. F. 564
98. Hawes, Mrs. Jessie, Greeley, Col. Decorated card. 562
- 98a. Hake, Ph., Manufacturing Company, New York. Stationery. Gal. F. 560
99. Hammond Typewriter Company, Chicago. Typewriters and appurtenances; models of printing devices and factory. Gal. F. 564
100. Harding Paper Company, Franklin, Ohio. Ledger and writing paper. Gal. F. 560
101. Hunt, E. C., Glen Cove, N. Y. Marking material, letter heads. 564

GROUP 89.

Typewriters, Paper, Blank Books, Stationery.

Exhibits in this group are installed in Sec. N, Block 3, and Gallery, Sec. F.

69. Amberg File & Index Co., Chicago. Letter files, copying and index books. Gal. F. 564
70. American Paper Pail & Box Company, New York. Paper pails, boxes and napkins. Gal. F. 557
71. American Writing Machine Company, Hartford, Conn. Writing machine and appliances; typewriter. Gal. F. 564

UNITED STATES.

102. Hurlburt Paper Manufacturing Company, South Lee, Mass. Writing paper and envelopes. Gal. F 560
103. Illinois Iron & Bolt Co., Carpenterville, Ill. Copy presses and stands. Gal. F 564
104. Kiefer, Karl, Cincinnati, Ohio. Typewriter. 564
105. Merchants' Roll Paper Supply Company, Indianapolis, Ind. Wrapping paper, cutter and printer. Gal. F 558
106. Mermod & Jaccard Jewelry Co., St. Louis. Society stationery. 564
107. Mills, Knight & Co., Boston. Fancy leather work. 561
108. Munson Typewriter Co., Chicago. Typewriters. 564
For exhibit see page 1035.
109. National Typewriter Company, Philadelphia. Typewriters and supplies. Gal. F 564
110. Office Specialty Company, Rochester, N. Y. Mercantile labor-saving devices. Gal. F 564
111. Ohmer's, M., Sons Company, Dayton, Ohio. Filing document cases, etc. Gal. F 564
112. Parks, Anna M., Albany, N. Y. Perforating machine. 564
113. Paterson Parchment Paper Company, Passaic, N. J. Parchment paper. Gal. F 560
114. Pearce, F. T., & Co., Providence, R. I. Gold pens, pencils, penholders, etc. 564
115. Philadelphia Typewriter Co., Philadelphia. Typewriters. 564
116. Pomeroy Bros., Newark, N. J. Writing inks, mucilage, sealing wax, etc. 564
117. Rockwell & Rupel Co., Chicago. Copy presses, typewriters' supplies. 564
118. Rogers Manifold Carbon Paper Company, New York. Manifold and carbon paper, typewriter supplies. 564
119. Rubel Bros., Chicago. Account books and system of accounts. Gal. F 561
120. Safeguard Account Company, Chicago. Account books and system of book-keeping. Gal. F 561
121. Scott Paper Company, Philadelphia. Toilet paper and fixtures. Gal. F 558
122. Shattuck Pen Co., New York. Stationers' and jewelers' specialties. 564
123. Shepard, Henry O., Co., Chicago. Blank books, cards, printed books, etc. 561
124. Smith Premier Typewriter Company, Chicago. Typewriters and supplies. Gal. F 564
125. Smith, The S. T., Co., New York. Typewriter supplies. 564
126. Standard Paint Company, New York. Insulating and waterproof papers. Gal. F 557
127. Thompson & Norris Co., Brooklyn, N. Y. Bottle packing. Cork and corrugated paper goods. Gal. F 557
128. Waterman, L. E., & Co., New York. Fountain pens. Gal. F 564
129. Wells Manufacturing Company, Syracuse, N. Y. Letter files, indexed books, racks, etc. Gal. F 564
130. Western Coated Paper & Card Company, Chicago. Coated papers. Gal. F 559
131. Western Paper Bag Company, Batavia, Ill. Paper bags and paper. Gal. F 558
132. Weston, Byron, Dalton, Mass. Ledger and record paper. Gal. F 560
133. Whiting Paper Company, New York. Paper, envelopes, visiting cards, etc. Gal. F 560
134. Wirt, Paul E., Bloomsburg, Pa. Fountain pens. Gal. F 564
135. Wyckoff, Seamans & Benedict, New York. Typewriters and appearances. Gal. F 564
For exhibit see page 356.
136. Yost Writing Machine Company, New York. Typewriters. Gal. F 564

GROUP 90.

Furniture of Interiors, Upholstery and Artistic Decorations.

Exhibits in this group are installed in Sec. N, Block 2, Sec. O, Block 2, Sec. P, Block 2, and Sec. 2, Block 1, south.

137. Abernethy, Wm. J., Minneapolis, Minn. Window shades. Dept. L. 568
138. Adams & Westlake Co., Chicago. Brass bedsteads. N-2 565
139. American Saloon Fixture Company, Chicago. Saloon furniture. Q-1-So. 566
140. Andrews, A. H., & Co., Chicago. Folding beds, chairs and school apparatus. P-2 565
141. Armstrong Furniture Company, Evansville, Ind. Tables. Q-1-So. 566
142. Berkey & Gay Furniture Co., Grand Rapids, Mich. Suites of furniture. 567
143. Boughton, John W., Philadelphia. Parquet floors, fret and grill work. Q-1-So. 571
144. Brunswick, Balke, Collender Company, Chicago. Furniture for club, billiard and bar rooms. Q-1-So. 572
145. Buffalo Iron & Brass Bedstead Co., Buffalo, N. Y. Brass and iron bedsteads. N-2 565
146. Buxbaum, Leopold, Chicago. Restaurant table. O-2-So. 566
147. Central Manufacturing Company, Chicago. Office furniture. O-2-So. 566
148. Child, Geo. F., Chair Co., Chicago. Adjustable chairs. 565
149. Cincinnati Furniture Exhibit, Cincinnati, O. House and office furniture. 567
150. Clark, E. B., & Co., Chicago. Moldings and picture frames. O-2-So. 569
151. Dean & Co., Chicago. Bamboo furniture. 567
152. Demme & Dierkes Furniture Co., Chicago. Chamber suits. Q-1-So. 567
153. Derby & Kilmer Desk Co., Boston. Office furniture. P-2 566
154. Dibblee, Henry Company, Chicago. Furniture, mantels and decorations. N-2 572
155. Drake Company, St. Paul, Minn. Petrified wood bric-a-brac. 572

DEPARTMENT H.—MANUFACTURES.

156. Ehman & Simon Manufacturing Co., Chicago. Wood mantels and interior finishing. 570
For exhibit see page 351.
157. Garden City Billiard Table Company, Chicago. Billiard tables, cues, balls, etc. P-2-So. 566
158. Gendron Iron Wheel Company, Toledo, Ohio. Reed furniture and bamboo novelties. Q-1-So. 555
159. Goshen Furniture Co., Goshen, Ind. Extension tables. O-2 566
160. Hall & Garrison, Philadelphia. Art furniture, mirror and picture frames. Q-1-So. 569
161. Hamline, L. M., & Co., Chicago. Chamber suites. O-2 567
162. Herts Brothers, New York. Furniture decorations and draperies. N-2 572
163. Horn Bros. Manufacturing Company, Chicago. Chamber suites, sideboards and chiffoniers. O-2 567
164. Hornung Manufacturing Company, Chicago. Barber shop fittings. P-2 572
165. Hunzinger, Geo., & Son, New York. Chairs, sofas and tables. Q-1-So. 565
166. Indianapolis Furniture Exhibit, Indianapolis, Ind. Furniture. 567
167. Indianapolis Unified Furniture Exhibit, Indianapolis. Furniture. 567
168. Interior Hardwood Company, Indianapolis, Ind. Ornamental hardwood parquetry. P-2 571
169. Jansen, Ed., New York. Reed and rattan furniture, etc. N-2 572
170. Kane, Thos., & Co., Chicago. Post-office furniture. P-2 572
171. Karpen, S., & Bros., Chicago. Parlor furniture. O-2 567
172. Kinnear & Gager Co., Columbus, O. Ceiling and wainscoting. Q-1-So. 571
173. Klaber, S., & Co., New York. Mexican onyx and other marble and bronze ornamentations. N-2 572
174. Klemm, Smith & Co., Chicago. Picture frames, mouldings, looking glasses, etc. Dept. L. 569
175. Kochs, Theo. A., Chicago. Barbers' supplies. P-2 572
176. Koenig & Gamer Furniture Co., Chicago. Chamber suites, chiffoniers and cribs. Q-1-So. 567
177. Ledig, R. G., Philadelphia. Onyx and brass furniture and woodwork. N-2 566
178. Marks Adjustable Folding Chair Company, Chicago. Folding chairs. P-2 565
179. Meriden Curtain Fixture Co., Meriden, Conn. Window shade fixtures. 568
180. Metropolitan Air Goods Company, Boston. Air mattresses, cushions and life-saving goods. Q-1-So. 565
181. Midland Desk Manufacturing Company, Chicago. Office desks. P-2 566
182. Munson Typewriter Company, Chicago. Typewriters. 564
183. New Haven Chair Company, New Haven, Conn. Chairs. P-2 565
184. Nevius & Haviland, New York. Spring shade roller. 564
185. Olsen, O. C. S., & Co., Chicago. Desks and combination bed. O-2 566
186. Oriel Cabinet Company, Grand Rapids, Mich. Fancy furniture. Q-1-So. 566
187. Passow, Chas., & Sons, Chicago. Bar and billiard-room fixtures, etc. Q-1-So. 572
188. Peterson, A., & Co., Chicago. Desks. Q-1-So. 566
189. Philadelphia Typewriter Company, Philadelphia. Typewriters. 564
190. Plimpton, H. R., & Co., Boston. Sofas and bed lounges. Q-1-So. 565
191. Pomeroy Bros., Newark, N. J. Writing inks, mucilage, sealing wax, etc. 564
192. Richter, August F., Chicago. Mirrors, picture frames and moldings. O-2 569
193. Reuhl Molding Manufacturing Company, Cincinnati, Ohio. Picture frames and picture frame moldings. 569
194. Rockford Furniture Exchange, Rockford, Ill. Furniture. 567
195. Rothchild's, R., Sons Co., Cincinnati, Ohio. Bar-room equipments. 572
196. Sanguinetti, Percy A., Chicago. Folding beds. O-2 567
197. Schlesinger, Wiessner & Co., South Brooklyn, N. Y. Metallic beds, steel furniture, etc. N-2 565
198. Schwarzwaelder, Wm., & Co., New York. Roll top desks. P-2 566
199. Schwartz, L., & Co., Buffalo, N. Y. Hardwood mantels. Q-1-So. 570
200. Sheboygan Chair Company, Sheboygan, Wis. Chairs. P-2 565
201. Smith, B. & W. B., New York. Office and store furniture. Q-1-So. 566
202. Stewart Hartshorn Company, Chicago. Self-acting shade rollers. 568
203. Sypher & Co., New York. Tapestries, souvenirs of Emperor Napoleon I, etc. 572
204. Wemple, Jay C., Co., Chicago. Window shades and shade rollers. 568
205. Wenter, F., & Co., Chicago. Hat-racks, china closets and cabinets. O-2 566
206. Whitcomb Metallic Bedstead Company, Birmingham, Conn. Brass and iron beds and mattresses. N-2 565
207. Windsor Folding Bed Company, Chicago. Folding beds, tables, chairs, etc. P-2 565

GROUP 91.

Ceramics and Mosaics.

Exhibits in this group are installed in Sec. H., Block 1, north, with one exception, which is noted opposite exhibitor's name.

208. Barnum, Ella M., Adrian, Mich. China decorations. 577
209. Bushnell, Mrs. Geo., Denver, Col. Decorated china. 577
210. Brown, Miss Jennie, Denver, Col. Decorated china. 577
- 210a. Brown & Eberhardt, Philadelphia. China bric-a-brac, statuary, etc. 576
211. Case, Mrs. Nettie, Denver, Col. Decorated china. 577
212. Case, Mrs. W., Denver, Col. Decorated china. 577
213. Central Press Brick Company, Cleveland, Ohio. Pressed brick. 574
214. Cincinnati Ceramic Art Club, Cincinnati, O. China decorations. 577

UNITED STATES.

215. Coleman, Mrs. Laura C., Denver, Col. Decorated china. 577
216. Coloden Terra Cotta Company, New York. Terra cotta tiles. 574
217. Columbian Ceramic Ass'n, Chicago. Decorated china. 577
218. Conley, Miss Carrie E., Denver, Col. Decorated china. 577
219. Cooley, Miss A. J., Aspen, Col. Decorated china. 577
220. Covey, Mrs., Pueblo, Col. Decorated china. 577
221. Dwight, Minnie T., New York. Decorated china. 577
222. Fading, Ada C., Denver, Col. Decorated china. 577
223. Fiske, Homes & Co., Boston. Fire-brick, sewer pipe, etc. 574
224. Galloway, Wm., Philadelphia. Ornamental terra cotta and decoration. 574
225. Haydenville Mining & Manufacturing Co., Haydenville, Ohio. Bricks, terra cotta, etc. 574
226. Healey, M. & S., Washington, D. C. Decorated china and chryso-ceramics. 577
227. Hydraulic Press Brick Company, St. Louis. Pressed bricks. 574
228. Johnson, Mrs. Egbert, Denver, Col. Decorated china. 577
229. Kassler, Mrs. Chas., Denver, Col. Decorated china. 577
230. Lavaron, Leonide C., Chicago. Decorated china; punch bowl. 577
231. Low Art Tile Company, Chelsea, Mass. Art tiles. 578
232. McGregor, Mrs., Denver, Col. Decorated china. 577
233. Miles, Mrs. W. E., Denver, Col. Decorated china. 577
234. Miller, Miss Ida, Denver, Col. Decorated china. 577
235. Miles, Mrs. Leone B., Denver, Col. Decorated china. 577
236. Northwestern Terra Cotta Company, Chicago. Terra cotta. 574
For exhibit see page 473
237. Olmstead, Mrs. Clarence, Denver, Col. Decorated china. 577
238. Perkins, Mrs. Emily D., Denver, Col. Decorated china. 577
239. Perkins, Mrs. E. S., Denver, Col. Decorated china. 577
240. Pickney, Miss J. R., Denver, Col. Decorated china. 577
241. Pioneer Fire Proof Construction Company, Chicago. Fire clay and terra cotta fire proofing. 574
242. Porter, Mrs. I. B., Denver, Col. Decorated china. 577
243. Quimby, Miss Jessie D., Denver, Col. Decorated china. 577
244. Rookwood Pottery Company, Cincinnati. Artistic pottery. N-1 575
245. Scott, Cora E., Saratoga Springs, N. Y. Decorated china and art embroideries. 577
246. Root, Mrs., Denver, Col. Decorated china. 577
247. Tiffany Pressed Brick Company, Chicago. Plain and ornamental brick. 574
248. Wilder, Mrs. Eugene, Boulder, Col. China decorations. 577

249. Wilke, Mrs. F. A., Richmond, Ind. Decorated china. 577

GROUP 92.

Marble, Stone and Metal Monuments, Mausoleums, etc. Caskets, Coffins and Undertakers' Furnishing Goods.

Exhibits in this group are installed in Sec. H, Block 2.

250. Barre Manufacturing Company, Barre, Vt.
a Granite monuments. 581
b Granite fountains. 582
c Granite mantels, etc. 583
251. Bowers, R. C., Granite Company, Montpelier, Vt. Monuments. 581
252. Egyptian Chemical Company, Boston. Embalming instruments, fluids and specialties. 584
253. Eureka Onyx Company, Indianapolis, Ind. Articles manufactured from onyx. 583
254. Granite Manufacturing Association, Quincy, Mass. Monuments, headstones, curbing, etc. 581
255. Kimes, Jesse B., Philadelphia. Slate burial vault. 581
256. National Steel Catacomb Company, Troy, N. Y. Steel catacomb for casket or coffin. 581
257. Nichols & Co., Chicago. Monuments. 581
258. St. Lawrence Marble Company, Gouverneur, N. Y. Vault front. 581
259. Vermont Marble Company, Proctor, Vt. Rough and manufactured marble. 581
260. White, Alfred, & Sons, Cincinnati. Statues and monuments. 581
261. White, Frank G., South Chicago, Ill. Hermetic shrouds. 584

GROUP 93.

Art Metal Work—Enamels, Etc.

Exhibits in this group are installed in Sec. G, Block 3, north.

262. American Bronze Company, Chicago. Bronze statues and castings. 585
263. Monumental Bronze Company, Bridgeport, Conn. Monuments, statuary, medallions, busts, etc. 585
264. Art Bronze Company, New York. Bronze and electro-bronze statuettes. 585
265. Stafford, N., New York. Medals and checks. 585
266. Van Knyck, Pauline, New York. Brass frame. 585
267. Western White Bronze Company, Des Moines, Ia. Monuments, statuary, busts, medallions, etc. 585

GROUP 94.

Glass and Glassware.

Exhibits in this group are installed in Sec. H, Block 1, south.

268. Diamond Plate Glass Company, Kokomo, Ind. Plate glass. 589
269. Hicks, F. M. & Co., Chicago. Floor, skylight and ornamental work in iron and glass. 591

DEPARTMENT H.—MANUFACTURES.

270. Libbey Glass Co., Toledo, Ohio. Cut glassware. 592
For exhibit see page 226
271. Macbeth, Geo. A., & Co., Pittsburg, Pa. Optical and lamp glasses. 591
272. Strauss, L., & Sons, New York. Cut glassware. 592
273. Wire Glass Company, Philadelphia. Wire glass. 591

GROUP 95.

Stained Glass in Decoration.

Exhibits in this group are installed in Gallery, Sec F.

274. Androvette, Geo. E., & Co., Chicago. Decorative glass. 596
275. Erkins, H., Chicago. Stained glass and glass windows. 596
276. Flanagan & Biedenweg, Chicago. Art glass. 596
277. Healey & Millett, Chicago. Stained glass. 596
278. Herndl, Miss Marie, Chicago. Stained glass window. 596
279. McCully & Miles, Chicago. Stained glass windows and interior decorations. 596
280. Maitland, Armstrong & Co., New York. Glass mosaics and stained glass windows. 596
281. Rawson & Evans, Chicago. Sandblast and ornamental glass. 596
282. Reith, Wm., Philadelphia. Art stained glass. 596
283. Tillinghast, Miss, New York. Stained glass window. 596
284. Wells Glass Company, Chicago. Art stained and ornamental glass. 596

GROUP 96.

Carvings in Various Materials.

Exhibits in this group are installed in Gallery, Sec. F.

285. Angered, Mrs. Constance J., Philadelphia. Jewel box. 598
286. Bachman, Henry G., Philadelphia. Carved ivory handles. 599
287. Bierbau, Miss, Pueblo, Col. Carved wood cabinet. 598
289. Lisscomb, Miss Lucie, Denver, Col. Carved wood chair and table. 598
290. Norton, Albert M., Hightstown, N. J. Wood carving. 598

GROUP 97.

Gold and Silverware, Plate, etc.

Exhibits in this group are installed in Sec. N, Block 1, south.

291. Andrew Messmer Company, Cincinnati. Altar decorations. N-1 So. 604
292. Benziger Bros., Chicago. Catholic church supplies. 604
293. Coleman, Mrs. R. J., Buena Vista, Col. Roses made of pure silver. Dept. E 607
294. Diepenbrock & Uchtman, New York. Church vestments; flags and banners. 604

295. Dirksen, G., Silver Filigree Manufacturing Company, Freeport, Ill. Silver filigree goods. 607
296. Feeley, Wm. J., & Co., Providence, R. I. Church ornaments. 604
297. Gorham Manufacturing Company, Providence, R. I. Silver and plated ware, etc. 605
288. Henderson-Ames Co., Kalamazoo, Mich. Swords, regalia and lodge jewels and furniture. 604
299. Holmes & Edwards Silver Co., Bridgeport, Conn. Silver plated ware. 609
300. Manhattan Silver Plate Company, Lyons, N. Y. Gold and silver-plated hollow ware. 609
301. Meriden Britannia Company, Meriden, Conn. Silver plated ware. 609
For exhibit see page 434
302. Mermod & Jaccard Jewelry Co., St. Louis, Mo. Jewels, watches, silver and plated ware, etc. 605
303. Messmer Company, Andrew, Cincinnati. Church ornaments. 604
304. Pairpoint M'fg Co., New Bedford, Mass. Silver plated ware. 609
305. Rogers, Wm., Manufacturing Company, Hartford, Conn. Silver, gold and silver plated ware. 605
306. Rogers & Bro., Waterbury, Conn. Silver plated ware. 609
For exhibit see page 490
307. Tiffany & Co., New York. Silverware, jewelry, watches, clocks, etc. 605
308. Tufts, James W., Boston. Silver plated ware. 610
309. Whitehead & Hoag, Newark, N. J. Society goods, fancy novelties, etc. 604
310. Wymble Manufacturing Company, Newark, N. J. Silverware. 605

GROUP 98.

Jewelry and Ornaments.

Exhibits in this group are installed in Sec. N, Block 1, north.

311. Albro, Eaton & Co., Providence, R. I. Gold plate chains and charms. 616
312. Arnold & Steere, Providence, R. I. Gold ornaments and rings. 612
313. Bell & Barber, New York. Jewelry and ornaments. 612-16
314. Ballou, B. A. & Co., Providence, R. I. Safety pins. 616
315. Blackinton, W. & S., Attleboro, Mass. Gold plate, silver and fancy chains, etc. 616
For exhibit see page 338
316. Browns Amber M'fg Co., New York. Amber products. 614
317. Canini, J. E., Saratoga Springs, N. Y. Jewelry. 612
318. Child, D. R. & Co., Providence, R. I. Improved sleeve buttons. 612
319. Clark & Coombs, Providence, R. I. Plated rings. 616
320. Corbin, A. R., New York. Jewelry. 616
321. Devereux, O. C., & Co., Providence, R. I. Plated link and collar buttons, silver ornaments, etc. 616
322. Fanning, J. H., Providence, R. I. Gold plated charm lockets, chains, etc. 616

UNITED STATES.

323. Favre, Leon, New York. Process of transferring portraits from a photograph on watches, lockets, etc. 612
324. Foster & Bailey, Providence, R. I.
a Gold lockets, lace pins, etc. 612
b Gold plated bracelets, chains, etc. 616
 For exhibit see page 339.
325. Fuller, Geo. H., Pawtucket, R. I. Jewelers' findings, ornaments and supplies. 612
326. Gaynor, T. F., New York. Interchangeable jewelry. 616
327. Grant, J. W., & Co., Providence, R. I. Gold plated chains and bracelets, silver jewelry. 616
328. Griffith, R. L., & Son, Providence, R. I. Scarf and lace pins, etc., and shell novelties. 616
329. Hancock, Becker & Co., Providence, R. I.
a Gold rings, mountings, studs, etc. 612
b Gold plated broaches, etc. 616
330. Irons, Chas. F., Providence, R. I.
a Gold emblems. 612
b Plated charms and rings. 616
331. Jones, Edward P., Chicago. Gold and silver watch cases, spoons, forks, etc. 612
332. Kent & Stanley Co., Providence, R. I. Jewelry. 612
 For exhibit see page 215.
333. Lederer, S. & B., Providence, R. I. Plated jewelry, emblems, etc. 616
334. Leland, W. H., & Co., Providence, R. I. Engravings and designs of jewelry. 612
335. Lind, Thomas W., Providence, R. I. Jewelers' findings, settings, etc. 612
336. Lorsch, A., & Co., Providence, R. I.
a Diamonds and other gems. 613
b Agate and other ornaments. 614
c Imitation precious stones. 615
338. Moorehead, R. L. & Co., Providence, R. I. Plated lace and scarf pins, chains, etc., and silver novelties. 616
339. Ostby & Barton, Providence, R. I. Jewelry. 612
340. Payton & Kelley, Providence, R. I. Plated bracelet, neck and eye-glass chains, etc. 616
341. Pearce, F. T. & Co., Providence, R. I. Novelties in silver, gold, plate, etc. 616
342. Potter, Wm. K., Providence, R. I. Tortoise shell combs, jewelry, etc. 614
343. Providence Stock Co., Providence.
a Gold and silver chains, etc. 612
b Plated chains, necklaces, charms, etc. 616
 For exhibit see page 1031.
344. Read, M. L. & Co., Providence, R. I.
a Scarf pins, studs, etc. 612
b Plated pins, drops, buttons, etc. 616
345. Reynolds Jewelry Company, Providence, R. I. Plated jewelry. 616
346. Seery M'fg Co., Providence, R. I. Chains and rings. 612
347. Spencer, E. L., Providence, R. I. Gold lace and scarf pins, drops, etc. 612
348. Simmons, R. F. & Co., Attleboro, Mass. Jewelry. 612
 For exhibit see page 637.
349. Webster, W. E., Providence, R. I. Gold rings. 612

GROUP 99.

Horology, Watches, Clocks, Etc.

Exhibits in this group are installed in Sec. O, Block 1, south, with one exception, which is noted opposite the exhibitor's name.

350. American Waltham Watch Company, Waltham, Mass. Watch movements and automatic watch making. 618
351. Ansonia Clock Company, Chicago. Clocks. 621
352. Cyclo Clock Co., New York. Year clocks. 621
353. Geneva Clock Company, Chicago. Clocks. 621
361. Keystone Watch Case Company, Philadelphia. Watch cases. 619
362. Muhr's, H., Sons, Philadelphia. Watch cases. 619
363. Non-Magnetic Watch Company, New York.
a Non-magnetic watches and appliances. Dept. J 617
b Non-magnetic watch balances, hair springs, etc. 618
364. Self-winding Clock Company, New York. Self-winding clocks and method of time distribution by electricity. N-1 621
365. Waterbury Watch Company, Waterbury, Conn. Watches and clock. 617
 For exhibit see page 341.

GROUP 100.

Silk and Silk Fabrics.

Exhibits in this group are installed in Section O, Block 1, north, with one exception, which is noted opposite exhibitor's name.

366. American Silk Label Company, New York. Woven labels. 632
367. Anderson Bros., Paterson, N. J. Dress silks. 629
368. Arrowsmith, Charlotte, Mercer, Pa. Silk weaving. 629
369. Baum, C. F., Chicago. Dress trimmings. 632
370. Belding Bros., & Co., Chicago.
a Sewing and embroidery silks. 626
b Serges, surahs and satins 628
c Dress silks. 629
d Braids. 632
371. Blumenthal, R. & S., New York. Silk ribbons. 631
372. Brainerd & Armstrong Company, New London, Conn. Silks and machine twist. 626
373. Castle Braid Company, New York. Silk and mohair braids. 632
374. Cheney Bros., South Manchester, Conn.
a Spun silk yarns and fabrics. 627
b Plain woven silks. 628
c Figured silk piece goods (Gal G). 629
d Ribbons. 631
375. Cutter, John D., & Co., New York.
a Silk threads. 626
b Silk fabrics. 627

DEPARTMENT H.—MANUFACTURES.

376. Dexter, Lambert & Co., New York.
a Dress silks. 629
b Ribbons. 631
377. Doherty & Wadsworth, New York.
a Silk dress goods. 629
b Silk ribbons. 631
378. Elwood, B. E. & E. E., Fort Plain, N. Y. Silk dress goods. 629
379. Empire Silk Company, New York. Silk dress goods. 629
380. Erskine, John, & Co., Union Hill, N. J. Silk ribbons. 631
381. Griswold Worsted Company, Philadelphia. Spun silk. 625
382. Hamil & Booth, New York.
a Dress silks. 629
b Ribbons. 631
383. Hitchcock - Meding Manufacturing Company, New York.
a Satin, damask, brocatels, etc. 628
b Dress silks. 629
c Ribbons and tie silks. 631
384. Jennings Lace Works, New York. Laces, gloves, mitts, veils and scarfs. 630
385. Johnson, Cowdin & Co., New York. Silk ribbons. 631
386. Kayser, Julius, & Co., New York. Silk underwear, gloves, mitts, etc. 630
387. Levy Bros., New York. Silk ribbons. 631
- 387a. Liberty Silk Co., New York. Figured silks. 629
388. McCallum Constable Hosiery Company, Holyoke, Mass. Silk hosiery. 630
389. McLaughlin Braid Company, Paterson, N. J. Braids. 632
390. Meisch Manufacturing Company, Paterson, N. J. Silk ribbons. 631
391. Meyenberg Corporation, Hoboken, N. J. Silk fur and tie silk. 628
392. Nonotuck Silk Company, Chicago.
a Silks. 626
b Silk underwear, hosiery and mittens. 630
c Braids and bindings. 632
393. Pelgram & Meyer, New York.
a Dress silks. 629
b Ribbons. 631
394. Phoenix Silk Manufacturing Company, Paterson, N. J.
a Dress silks. 629
b Handkerchiefs, etc. 630
c Ribbons, bookmarks, etc. 631
d Silk braids. 632
395. Rhenania Mills, College Point, L. I. Ribbons and silks. 631
396. Richardson Silk Company, Chicago.
a Silks. 629
b Hosiery and mittens. 630
c Braids. 632
397. Robertson, William, New York. Silk curtains and upholstery silks. 629
398. Ryle, Wm., & Co., New York.
a Raw and spun silk. 625
b Thrown silk. 626
399. Simon, R., & H., Union, N. J.
a Dress silks. 629
b Ribbons. 631
400. Skinner, William Manufacturing Company, Holyoke, Mass.
a Serges. 628
b Linings. 630
c Braids. 632
401. Stearns, John M., New York. Dress silks. 629
402. Strange, William, Company, New York.
a Serges. 628
b Dress silks. 629
c Linings. 630
d Ribbons. 631
403. Sutro Bros. Braid Company, New York. Trimming braids. 632
404. Trevor, William, New York. Cravats, handkerchiefs, ties, etc. 630
406. Wahnetah Silk Company, Catasauqua, Pa. Silk plushes. 628
407. Werner, Itschner & Co., Philadelphia.
a Dress goods. 629
b Silk ribbons. 631

GROUP 101.

Fabrics of Jute, Ramie and Other Vegetable and Mineral Fibres.

Exhibits in this group are installed in Gallery, Sec. F.

408. Asbestos Specialty Company, Buffalo, N. Y. Asbestos articles. 637
409. Blabon, Geo. W., & Co., Philadelphia. Oil cloth and linoleum. 636
410. Johns, H. W., Manufacturing Company, New York. Asbestos materials, woven, spun, felted, etc. 637
411. Pantasote Leather Company, New York. Substitute for leather. 636
412. Potter, Thos., Sons & Co., Philadelphia. Oil cloth and linoleum. 636
413. Tannette Manufacturing Company, Leather imitation for furniture etc. 636

GROUP 102.

Yarns and Woven Goods of Cotton, Linen and Other Vegetable Fibres.

Exhibits in this group are installed in Sec. O, Block I, center.

414. Aberfoyle Manufacturing Company, Chester, Pa. Cotton fabrics. 638
415. Allendale Company, N. Providence, R. I. Cotton goods. 638
416. Amory Manufacturing Company, Manchester, N. H. Cotton goods. 638
417. Amoskeag Manufacturing Company, Manchester, N. H. Cotton goods. 638
418. Appleton Company, Boston. Cotton flannels, dress goods, etc. 638
419. Attawaugan Company, Norwich, Conn. Cotton goods. 638
420. Bailey, John T. & Co., Philadelphia. Cordage, twines, bags, burlaps, etc. 638
421. Barnaby Manufacturing Company, Fall River, Mass. Gingham. 638
422. Berlin Print Works, Philadelphia. Cotton fabrics. 638
423. Binns' Patent Band Company, Philadelphia, Pa. Trimmings and upholstery goods. 638
424. Cabot Manufacturing Company, Brunswick, Me. Cotton goods. 638
425. Cocheco Manufacturing Company, Dover, N. H. Cotton fabrics. 638
426. Conanicut Mills, Fall River, Mass. Cotton goods. 638

UNITED STATES.

427. Davol Mills, Fall River, Mass. Cotton goods. 638
428. Dwight Mills, Chicopee, Mass. Cotton goods. 638
429. Eddystone Manufacturing Company, Philadelphia. Cotton fabrics. 638
430. Farwell Mills, Lisbon, Me. Cotton goods. 638
431. Fisher Manufacturing Company, Fisherville, Mass. Woven cotton goods. 638
432. Forestdale Manufacturing Company, Forestdale, R. I. Cotton goods. 638
433. Garner & Co., New York. Printed cotton piece goods. 638
434. Glasgo Lace Thread Company, Glasgo, Conn. Thread for fancy work. 638
435. Glasgow Company, So. Hadley Falls, Mass. Cotton goods. 638
436. Globe Yarn Mills, Fall River, Mass. Yarns. 638
For exhibit see page 821.
437. Great Falls Manufacturing Company, Great Falls, N. H. Cotton goods. 638
438. Greene, S. H., & Sons, Providence, R. I. Cotton goods. 638
439. Greenville Manufacturing Company, Smithfield, R. I. Cotton goods. 638
440. Grosvenor Dale Company, Grosvenor Dale, Conn. Cotton goods and jaconets. 638
441. Hadley Company, Boston. Cotton yarns and threads. 638
442. Hamlet Mills, Woonsocket, R. I. Cotton goods. 638
443. Jackson Company, Boston. Cotton sheetings, flannels, etc. 638
444. Kneeder & Co., Philadelphia. Woven cotton goods. 638
445. Knight, B. B., & R., Providence, R. I. Cotton goods. 638
446. Knitted Mattress Company, Canton Junc., Mass. Knitted cotton fabrics. 638
447. Lancaster Mills, Boston. Gingham. 638
448. Lapham, Enos, Centreville, R. I. Cotton goods. 638
449. Lyman Mills, Holyoke, Mass. Cotton goods. 638
450. Manville Company, Providence, R. I. Cotton piece goods. 538
451. Merrimack Manufacturing Company, Boston. Printed cotton goods. 638
452. Methuen Company, Boston. Fancy cotton fabrics. 638
453. Monohansett Manufacturing Company, Putnam, Conn. Cotton goods. 638
454. Morse Mills, Putnam, Conn. Cotton goods. 638
455. Nashua Manufacturing Company, Boston. Cotton flannels, sheetings, etc. 638
456. Naumkeag Steam Cotton Co., Salem, Mass. Sheetings and sateens. 638
457. New York Mills, New York. Cotton goods. 638
458. Nightingale Mills, Putnam, Conn. Cotton goods. 638
459. Ossawan Mills Company, Norwich, Conn. Picture and shade cords. 572
460. Pacific Mills, Lawrence, Mass. Cotton fabrics. 638
461. Palmer, I. E., Middletown, Conn. Cotton fabrics. 638
462. Pemberton Company, Boston. Fancy cotton fabrics. 638
463. Ponemah Mills, Providence, R. I. Cotton goods. 638
464. Powhatan Mills, Putnam, Conn. Cotton goods. 638
465. Sanford Spinning Company, Fall River, Mass. Yarns. 638
For exhibit see page 821.
466. Slater Cotton Company, Pawtucket, R. I. Cotton goods. 638
467. Slater, John W., Providence, R. I. Cotton goods. 638
468. Stark Mills, Manchester, N. H. Cotton goods. 638
469. Star & Crescent Mills Co., Philadelphia. Pile fabrics; cotton and linen toweling. 638
470. Stevens Linen Works, Boston, Mass. Linen crash. 639
471. Thompson, James, & Co., Chicago. Twines, mosquito nets, buckram and screen cloth. 638
472. Thompson, James, & Co., New York. Twines, mosquito nets, buckram, etc. 638
473. Trion Manufacturing Company, Trion Factory, Ga. Cotton goods. 638
474. Valley Falls Company, Valley Falls, R. I. Cotton goods. 638
475. Wamsutta Mills, New Bedford, Mass. Sheetings and fine white goods. 638
476. Whittenton Manufacturing Company, Taunton, Mass. Cotton fabrics. 638
477. Wilkes-Barre Lace Manufacturing Company, New York. Cotton lace curtains. 638
478. Williamsville Manufacturing Company, Killingly, Conn. Cotton goods. 638
479. Woods, Joseph W., & Son, Boston. Cotton goods. 638

GROUP 103.

Woven and Felted Goods of Wool and Mixtures of Wool.

Exhibits in this group are installed in Sec. P, Block 1, except Classes 646, (upholstery goods) and 649 (carpets), which are installed in Gallery, Sec. F, and Class 650 (wool hats), which are installed in Gallery, Sec. G

480. Allen, L. L., & Bros., Rochester, N. Y. Flannels. 641
481. American Loop Fabric Company, Brooklyn, N. Y. Blankets, robes, rugs, etc. 642
482. American Mill Company, Rockville, Conn.
a Woolen goods. 641
b Worsted goods. 643
483. Appleton Woolen Mills, Appleton, Wis.
a Yarns. 640
b Woolen goods. 641
c Felt goods. 648
484. Arlington Mills, Lawrence, Mass.
a Yarns, roving and tops. 640
b Woolen dress goods. 641
c Worsted goods. 643
d Woolen goods on cotton warps. 645

DEPARTMENT H.—MANUFACTURES.

485. **Atlantic Mills, Providence, R. I.**
a Worsted goods. 643
b Woolen goods woven on cotton warps. 645
486. **Ballardvale Mills, Ballardvale, Mass.**
a Yarns. 640
b Flannels. 641
487. **Baun, C. F., Chicago.** Dress trimmings. 647
488. **Belvidere Manufacturing Company, Wales, Mass.** Woolen goods, flannels and dress goods. 641
490. **Berkeley Woolen Company, Wales, Mass.** Kerseys and meltons. 641
491. **Berkeley Woolen Mills, Wales, Mass.** Woolen goods. 641
492. **Blackinton, S., Woolen Company, North Adams, Mass.**
a Woolen goods. 641
b Worsted goods. 645
493. **Blackstone Woolen Company, Blackstone, Mass.**
a Cassimeres. 641
b Worsted. 643
494. **Bound Brook Woolen Mills, Bound Brook, N. J.**
a Cotton and woolen mixed goods. 644
b Woolen goods woven on cotton warps. 645
495. **Broad Brook Company, Broad Brook, Conn.**
a Woolen goods. 641
b Worsted goods. 643
496. **Burlington Woolen Company, Winooski, Vt.** Woolen goods. 641
497. **Calumet Woolen Company, Uxbridge, Mass.** Woolen goods. 641
498. **Calumet Woolen Mills, Uxbridge, Mass.** Cassimeres. 641
499. **Carleton, E. G., & Sons, Rochdale, Mass.** Flannels and woolen goods. 641
500. **Capps, J., & Son, Jacksonville, Ill.**
a Woolen goods. 641
b Blankets, etc. 642
c Cotton and woolen mixed goods. 644
d Woolen goods woven on cotton warp. 645
501. **Charlottesville Woolen Mills, Charlottesville, Va.** Woolen wear. 641
502. **Chase, John, & Sons, Webster, Mass.**
a Yarn. 640
b Woolen goods. 641
c Worsted goods. 643
503. **City Mills Company, City Mills, Mass.** Felt goods. 648
504. **Clinton Mills Company, Norwich, Conn.**
a Woolen goods. 641
b Woolen goods woven on cotton warps. 645
505. **Clinton Worsted Company, Clinton, Mass.**
a Men's wear and flannels. 641
b Worsted goods. 643
506. **Cocheco Woolen M'fg Company, East Rochester, N. H.** Flannels; woolen dress goods. 641
507. **Concord Manufacturing Company, West Concord, N. H.** Flannels and woolen goods. 641
508. **Conestoga Steam Mills, Lancaster, Pa.** Woolen goods woven on cotton warps. 645
509. **Cranston Worsted Mills, Bristol, R. I.** Yarns. 640
510. **Devonshire Mills, Goff's Falls, N. H.** Dress goods. 641
511. **Dolan, Thomas, & Co., Philadelphia.**
a Cassimeres, cloakings, etc. 641
b Worsted goods. 643
512. **Erben, Search & Co., Philadelphia.** Yarns. 640
513. **Empire Woolen Mills, Clayville, N. Y.**
a Woolen goods. 642
b Worsted. 643
514. **Farr Alpaca Company, Holyoke, Mass.**
a Worsted stuffs. 640
b Mohair serges. 643
c Italian cloths. 645
d Alpacas. 651
515. **Fleisher, S. B. & B. W., Philadelphia.**
a Woolen and worsted yarns. 640
b Braids. 647
516. **Folwell Bros. & Co., Philadelphia, Pa.**
a Woolen goods. 641
b Worsted goods. 643
c Woolen goods woven on cotton warps. 645
517. **French & Ward, New York.** Eider-downs, knit goods, etc. 651
518. **George's River Mills, Warren, Me.**
a Dress goods. 641
b Cheviots. 644
519. **Germania Mills, Holyoke, Mass.** Woolen goods. 641
520. **Glendale Woolen Mills, Glendale, R. I.** Woolen goods. 641
521. **Globe Woolen Company, Utica, N. Y.**
a Woolen. 641
b Worsted goods. 643
522. **Gonic Manufacturing Company, Gonic, N. H.** Woolens, flannel dress goods. 641
523. **Griswold Worsted Company, Ltd., Darby, Pa.** Worsted yarns. 640
524. **Haile & Frost Manufacturing Co., Hinsdale, N. H.**
a Woolen cloth and dress goods. 641
b Cotton and woolen mixed goods. 644
c Woolen goods woven on cotton warps. 645
525. **Harris Woolen Company, Woonsocket, R. I.** Woolen goods. 641
526. **Hartley, F., Lawrence, Mass.** Yarns and carbonized wool. 640
527. **Hay & Todd Manufacturing Co., Ypsilanti, Mich.** Yarns, tops and noils. 640
528. **Hecla Mills, Uxbridge, Mass.** Woolen goods. 641
529. **Hetzel, Geo. C., & Co., Chester, Pa.**
a Woolen goods. 641
b Worsted goods. 643
530. **Hockanum Company, Rockville, Conn.**
a Woolen goods. 641
b Worsted goods. 643
531. **Hopkins, T. E., Danielsonville, Conn.** Woolen goods. 641
532. **Jackson & McEnery Co., Chicago.** Dress trimmings. 647

UNITED STATES.

533. Kiamensi Woolen Company, Stanton, Del. Cassimeres and kerseys. 641
534. Kimball, H. A., Manton, R. I. Cassimeres. 641
535. Lewis Knitting Company, Janesville, Wis. Woolen underwear. 641
536. Lucas, B., & Co., Norwich, Conn.
a Woolen goods. 641
b Woolen goods woven on cotton warps. 645
537. Massachusetts Mohair Plush Company, Boston, Mass. Gal. F 646
538. Merchant's Woolen Company, Dedham, Mass.
a Woolen goods. 641
b Overcoatings, serges, etc. 643
539. Merrimac Woolen Mills, Dracut, Mass.
a Woolen goods. 641
b Blankets. 642
c Cotton and woolen mixed goods. 644
540. Merritt, Geo., & Co., Indianapolis, Ind.
a Woolen goods. 641
b Blankets. 642
541. Milner, F., & Co., Moosup, Conn. Cassimeres. 641
542. Milwaukee Worsted Cloth Company, Milwaukee. Worsted cloths, etc. 643
543. Mississippi Mills, Wesson, Miss.
a Woolen goods. 641
b Cotton and woolen mixed goods. 644
544. Muncy Woolen Mills Company, Muncy, Pa.
a Woolen goods. 641
b Blankets, robes, rugs, shawls, etc. 642
545. New England Company, Rockville, Conn.
a Woolen goods. 641
b Worsted goods. 643
546. Niantic Mills Company, East Lyme, Conn.
a Woolen goods. 641
b Cotton and woolen mixed goods. 644
547. Niantic Woolen Company, Niantic, Conn. Woolen goods. 641
548. North Adams Manufacturing Company, North Adams, Mass. Cassimeres. 641
549. North Star Woolen Mills Company, Minneapolis, Minn.
a Woolen goods. 641
b Blankets, robes, rugs, shawls, etc. 642
550. Norwich Woolen Company, Norwich, Conn.
a Woolen goods. 641
b Cotton and woolen mixed goods. 644
c Woolen goods woven on cotton warps. 645
551. Oakes, Thomas, & Co., Broomfield, N. J. Cassimeres and overcoatings. 641
552. Oregon City Manufacturing Company, Oregon City, Ore.
a Woolen goods. 641
b Blankets, robes, rugs, shawls, etc. 642
553. Orinoko Mills, Philadelphia. Upholstery goods and drapery materials. Gal. F 646
554. Pacific Mills, Lawrence, Mass.
a Wooldress fabrics. 641
b Worsted dress fabrics. 643
555. Peace Dale Mfg. Co., Peace Dale, R. I.
a Woolen goods. 641
b Blankets, robes, rugs, shawls, etc. 642
c Worsted goods. 643
556. Plymouth Woolen Company, Plymouth, Mass. Woolen goods. 641
557. Providence Worsted Mills, Providence, R. I.
a Yarns. 640
b Woolen goods. 641
c Worsted cloth. 643
558. Racine Woolen Mills, Racine Wis. Shawls, etc. 642
559. Raritan Woolen Mills, Raritan, N. J. Woolen goods. 641
560. Ray Woolen Company, Franklin, Mass.
a Woolen goods. 641
b Woolen goods woven on cotton warps. 645
561. Read Carpet Company, Bridgeport, Conn. Carpets and rugs. Gal. F 649
562. Read, William F., Philadelphia.
a Dress goods. 641
b Worsted goods. 643
c Umbrella cloth. 647
563. Riverside Mills, Providence, R. I. Worsted coatings, etc. 643
564. Rock Manufacturing Company, Rockville, Conn.
a Cassimeres. 641
b Worsted goods. 643
565. Sanford Mills, Sanford, Me. Robes, rugs and horse blankets. 642
566. Sawyer Woolen Mills, Dover, N. H.
a Woolen goods. 641
b Worsted goods. 643
567. Saxon Worsted Company, Franklin, Mass. Worsted goods. 643
568. Seabastick Mills, Hartland, Me.
a Woolen goods. 641
b Blankets, robes, rugs, shawls, etc. 642
c Cotton and woolen mixed goods. 644
569. Shuler & Benninghofen, Hamilton, O.
a Woolen blankets and shirts. 642
b Paper makers' felts and jackets. 648
570. Somerset Manufacturing Company, Raritan, N. J. Woollens. 641
571. Springfield Company, Rockville, Conn.
a Woolen goods. 641
b Worsted goods. 643
572. Springville Company, Rockville, Conn.
a Cassimeres. 641
b Worsted goods. 643
573. Sterling Mills, Lowell, Mass. Woollens and dress goods. 641
574. Stevens, C. A., & Co., Ware, Mass. White flannels. 641
575. Stott, C. H., & F. H., Stottsville, N. Y.
a Woolen goods. 641
b Woolen goods woven on cotton warps. 645

DEPARTMENT H.—MANUFACTURES.

577. Talbot Mills, North Billerica, Mass. Flannels, woolen and dress goods. 641
578. Tinkham, Wm., & Co., Harrisville, R. I. Worsted goods. 643
579. Titus, Elias, & Sons, Poughkeepsie, N. Y.
a Woolen goods. 641
b Cotton and woolen mixed goods. 644
580. Washington Mills Company, Lawrence, Mass.
a Yarns. 640
b Overcoatings, cloakings, woolen goods and dress goods. 641
c Worsted suitings. 643
581. Waterloo Woolen Manufacturing Company, Waterloo, N. Y.
a Woolen goods. 641
b Shawls. 642
582. Waterloo Woolen Mills Company, New York. Woolen shawls and broadcloth. 641
583. Waumbeck Company, Milton Mills, N. H.
a Woolen goods. 641
b Woolen goods woven on cotton warps. 643
584. Wauskuck Mills, Providence, R. I. Worsted goods. 643
585. Weybosset Mills, Providence, R. I.
a Woolen goods and cassimeres. 641
b Worsted goods and cloth. 643
586. Winthrop Mills Company, Winthrop, Me.
a Blankets, etc. 642
b Cotton and woolen mixed goods. 644
587. Woll, P., & Sons, Philadelphia. Curled hair, feathers, fibre and bristles. 651
588. Wood, Wm., & Co., Philadelphia, Pa.
a Woolen and worsted goods. 641
b Fancy cotton goods. 644
589. Worumbo Manufacturing Company, Lisbon Falls, Me.
a Woolen goods. 641
b Woolen mixed goods. 644
- GROUP 104.**
Clothing and Costumes.
- Exhibits in this group are installed in Gallery, Sec. G, except Class 657 exhibits, in which are in Sec. P, Block 1, shown with the woolen goods.
590. Adler, Jacob, & Co., New York. Gloves. P-1 657
591. Allen, John C., Gloversville, N. Y. Gloves and mittens. P-1 657
592. Altman Summer Neckwear Company, New York. Summer neckwear. 658
593. American Hosiery Company, New Britain, Conn. Knit goods, hosiery, etc. P-1 657
594. American Knitting Mills, Philadelphia. Knit goods, hosiery, etc. P-1 657
595. Appel, Dunseath, Co., Denver, Col. Full dress coat and waistcoat; sack suit, waist coat and trousers. M. T. ex. 652
596. Atkinson, Geo. R., Rockford, Ill. Coat, waistcoat, overcoat and trousers. M. T. ex. 652
597. Back, Joseph, Chicago. One full dress suit. M. T. ex. 652
598. Bastable & Mannigan, New York. Overcoat and riding breeches and leg-gins. M. T. ex. 652
599. Baum & Ulman, Williamsport, Pa. Suspenders. 658
600. Beatty, C. F., New York. Prints of engravings in steel, brass and zinc for hatters. 654
601. Bell's, Henry H., Sons, Milton, N. Y. Knit goods, hosiery, etc. P-1 657
602. Benn & Becker, Amsterdam, N. Y. Knit goods, hosiery, etc. P-1 657
603. Bowers, James, & Co., Newark, N. J. Lock clasps for corsets. 658
604. Brenk Bros., Milwaukee, Wis. Cut-away frock, and single breasted coat and trousers. M. T. ex. 652
605. Brill Bros., New York. Men's shirts. 658
606. Brooklyn Shield Company, Brooklyn, N. Y. Dress shields. 653
607. Brownell, B. H., St. Louis, Mo. Sack suit and overcoat, frock coat, duck waistcoat and English worsted trousers. M. T. ex. 652
608. Burlington Woolen Company, Win-ooski, Vt. Men's wear and flannels. 658
609. Canfield Rubber Company, Bridgeport, Conn. Dress shields. 658
610. Chase, Thos. W. & C., Providence, R. I. Overcoat, waistcoat and Prince Albert coat. M. T. ex. 652
611. Chicago Corset Company, Chicago. Corsets and waists. 658
612. Cluett, Coon & Co., Chicago. Collars, cuffs and shirts. 658
613. Collins, Wm. J., Chicago. Coat, waistcoat and trousers. M. T. ex. 652
614. Condé, Swits, Oswego, N. Y. Knit goods. P-1 657
615. Coronet Corset Company, Jackson, Mich. Corsets and waists. 653
616. Cortland Corset Manufacturing Company, Cortland, N. Y. Corsets, waists, clasps and hose supporters. 653
617. Croft, Fred W., Chicago. Trousers, waistcoat, Frederick coat and surtout. M. T. ex. 652
618. Curtis, H. C., & Co., Troy, N. Y. Shirts, collars and cuffs. 658
619. Davis Sewing Machine Company, Dayton, Ohio. Sewing machines. 659
620. Degerberg, P. A. & Co., Philadelphia. Ladies' driving coat and dress uniform of Phila. City Troop. M. T. ex. 652
621. Delsarte Corset Company, New York. Corsets, waists and shoulder braces. 658
622. Dempster & Place, Gloversville, New York. Gloves and mittens. P-1 657
623. Doll, Edwin N., New York. Dress, silk and cassimer waistcoat and morning coat suit. M. T. ex. 652
624. Domestic Sewing Machine Company, Chicago. Sewing machines. 659
625. Dryfoos, L., & Co., New York. Skirts. 658
626. Earl Manufacturing Company, Chicago. Hose supporters. 658
627. Earl & Wilson, New York. Men's collars and cuffs. 658
628. Ederheimer, Stein & Co., Chicago. Clothing. 652

UNITED STATES.

629. Falconer & Boynton Manufacturing Co., Portage, Wis. Underwear. 658
630. Fisk, C. M., Rochester, N. Y. Inverness coat. M. T. ex. 652
trousers. M. T. ex. 652
631. Fisher, Geo., & Sons, Cincinnati. Dress coat, waistcoat and trousers. 652
632. Fleisher, S. B. & B. W., Philadelphia, Pa. Small wares. P-1 657
633. Flint, Olivia C., Coston, Mass. Corsets and waists. 653
634. Foster, Paul & Co., New York. Kid gloves. 657
635. Franklin & Co., New York. One suit. M. T. ex. 652
636. French & Ward, Stoughton, Mass. Knit goods, hosiery, etc. P-1 657
637. Gage, Downs Company, Chicago. Corsets. 653
638. Glasser & Rock, Chicago. Overcoat, coat, waistcoat, dress coat and pair 652
639. Glastonbury Knitting Company, Glastonburg, Conn. Men's knitted underwear. P-1 657
640. Gleason & Co., Philadelphia. One frock suit. M. T. ex. 652
641. Graichen, Wm. C., Glove Company, Winchester, Va. Gloves and mittens. P-1 657
642. Grus & Luken, Chicago. Coats. M. T. ex. 652
643. Hagist, John, Philadelphia. Cutaway and waistcoat, trousers, lady's dress braided. T. M. ex. 652
644. Haley, C. J. & Co., New York. Hose supporters. 658
645. Haynes, N. B., Company, Chicago. Millinery. 655
646. Hay & Todd Manufacturing Co., Ypsilanti, Mich. Knit goods, hosiery, etc. P-1 657
647. Heinig, Frank, Chicago. Full dress suit and promenade suit and overcoat. M. T. ex. 652
648. Hippach & Benson, Chicago. Cutaway frock coat, vest and trousers. M. T. ex. 652
649. Hodgkins & Hodgkins, Boston. Hunting suit. M. T. ex. 652
650. Hollander, L. P., & Co., Boston.
a Boys' clothing. 652
b Ladies' costumes and garments. 653
c Millinery. 655
651. Houghland, Mrs. E. G., N. Denver, Col. Night robe. 653
652. Household Sewing Machine Company, Providence, R. I. Sewing machines. 659
653. Hoyt, F. A. & Co., Philadelphia. Child suit and overcoat. M. T. ex. 652
654. Hull & Co., Poughkeepsie, N. Y. Trousers. 652
655. Hyde, Chas. E. & Co., Chicago. Full dress and business suit and overcoat. M. T. ex. 652
656. Imandt, N., New York. Dress coat, waistcoat and trousers and hunting coat, waistcoat and breeches. M. T. ex. 652
657. Ivorine Collar & Cuff Co., Chicago. Collars and cuffs. 658
658. Jaeger's Dr. Sanitary Woolen System Company, New York. Knit goods, hosiery, etc. P-1 657
659. James, Mrs. Lucy J., Pomona, Cal. Corsets. 653
660. Keith Bros. & Co., Chicago. Derby hats. 654
661. Kilmore, J. W., Chicago. Suit and overcoat. M. T. ex. 652
662. Knox, E. M., New York. Hats. 654
663. Kuh, Nathan & Fisher Co., Chicago. Ready made clothing. 652
664. Lehman, Chas. F., Brooklyn, N. Y. Cork helmets. 654
665. Lewis Knitting Company, Janesville, Wis. Knit goods, hosiery, etc. P-1 657
666. Lofquist, Oscar, Des Moines, Iowa. Frock coat, waistcoat and trousers. M. T. ex. 652
667. Losse, J. W., St. Louis, Mo. Full dress and business suit. M. T. ex. 652
668. Lundahl & Co., Chicago. Tuxedo coat and overcoat. M. T. ex. 652
669. Mayer, Strouse & Co., New York. Corsets. 653
670. Merwin, B. R., New York. Dress suit, house jacket and sack, over sack, Tuxedo, cutaway and Prince Albert coat. M. T. ex. 652
671. Messenger Bros., & Jones, Boston. Driving coat. M. T. ex. 652
672. Millen, E., & Co., New York. Shirts. 658
673. Mitchell, John J., New York. Fashion plates, photographs and works on cutting. M. T. ex. 652
674. Mitchell, L. A., Chicago. Coat, waist coat and trousers. M. T. ex. 652
675. Muller, A. F., New York. Riding habit. M. T. ex. 652
676. Nagel, Conrad F., New York. Dress suit. M. T. ex. 652
677. National Knitting Company, Milwaukee, Wis. Knit goods, hosiery, etc. P-1 657
678. New Albany Hosiery Mills, New Albany, Ind. Knit goods, hosiery, etc. P-1 657
679. New Home Sewing Machine Company, Orange, Mass. Sewing machines. 659
680. Newman, Mme., Corset Co., Chicago. Corsets. 653
681. Norfolk & New Brunswick Hosiery Co., New Brunswick, N. J. Knit goods, hosiery, etc. P-1 657
682. Northrup Glove Company, Johnstown, N. Y. Gloves. P-1 657
683. Notbohm, R. C., Milwaukee, Wis. Suit and overcoat. M. T. ex. 652
684. Patterson, John, & Co., New York. State, grooms' and waiters' livery suits, and coachman's overcoat and trousers. M. T. ex. 652
685. Purington, H. G., Chicago. Promenade overcoat, fancy waistcoat, trousers and full dress uniform of major. M. T. ex. 652
686. Rogans, L., & Co., Birmingham, Ala. Coat. M. T. ex. 652
687. Rossberg, H., New York. Riding habit and reception dress. M. T. ex. 652
688. Rothschild, E., & Bro., Chicago. Men's clothing. 652
689. Rugheimer, John, Charleston, S. C. Morning coat. M. T. ex. 652

DEPARTMENT H.—MANUFACTURES.

690. Saalmann, John B., New York. Overcoat. M. T. ex. 652
691. Schilling Corset Company, Detroit, Mich. Corsets. 653
692. Schuab Bros., Chicago. Overcoat, full dress suit, business suit, cutaway suit. M. T. ex. 652
693. Self Threading Sewing Machine Company, New York. Sewing machines. 659
694. Seybel, F. W., New York. Ladies' hats. 655
695. Sheridan, W. G., Chicago. Coat, waistcoat and trousers. M. T. ex. 652
696. Siegel Bros., New York. Ladies underwear and muslin. 658
697. Siegel, F., & Bros., Chicago. Cloaks. 653
698. Singer Manufacturing Company, New York. Sewing machines. 659
699. Somers, Frank D., Boston. Frock coat, waistcoat, top coat and trousers. M. T. ex. 652
700. Stadler, A., Lincoln, New York. Business suit, evening dress suit, opera coat and Lansdowne coat. M. T. ex. 652
701. Standard Sewing Machine Company, Cleveland, Ohio. Sewing machines. 659
702. Star Knitting Works, Chicago. Ladies' knit underwear. P-1 657
703. Stentin Knitting Mill, Philadelphia. Knit goods, hosiery, etc. P-1 657
704. Stetson, John B., Company, Philadelphia. Hats. 654
705. Stiehl, G. H., & Co., New York. Head wear. 654
706. Strawbridge & Clothier, Philadelphia. Costumes and wraps. 653
707. Tracy, Mrs. Harriet Ruth, New York. Sewing machine inventions. 659
708. Turner, Henry, Chicago. Overcoat, sack and waistcoat and trousers. M. T. ex. 652
709. Twyeffort, New York. Coat, waistcoat and breeches. M. T. ex. 652
710. United Shirt & Collar Co., Chicago. Collars, cuffs and shirts; aprons and underwear. 658
711. Van Orden Corset Co., New York. Corsets. 693
712. Verdenburgh & Brooks, New York. Overcoat, morning frock and waistcoat. M. T. ex. 652
713. Wachsmuth, L. C., & Co., Chicago. Ready made clothing. 265
714. Walshe, R. J., Chicago. Coat, waist coat, trousers and overcoat. M. T. ex. 652
715. Waukenhose Company, Boston, Mass. Knit goods, hosiery, etc. P-1 657
716. Way Manufacturing Company, Philadelphia. Knit goods and hosiery. P-1 657
717. Weil, Haskell & Co., New York. Shirts and waists. 658
718. Weingarten Bros., New York. Corsets. 658
719. Weiss, Jules C., & Co., New York. Dress coat, waistcoat, trousers and driving overcoat. M. T. ex. 652
720. Werno, Henry, Chicago. Dress coat, waistcoat and trousers. M. T. ex. 652
721. Wessman, J. P., New York. Overcoat, full dress waistcoat, coat and trousers. M. T. ex. 652
722. White Sewing Machine Company, Cleveland, Ohio. Sewing machines. 659
723. Wilde, James Jr., & Co., Chicago. Men's, boys' and children's clothing. 652
724. Winnepisiogee Hosiery Company, Laconia, N. H. Knit goods, hosiery, etc. P-1 657
725. Wire Buckle Suspender Company, Williamsport, Pa. Suspenders, garters, shoulder bracers, etc. 658
726. Wolfsbruck, Miss S., New York. Misses' and children's suits. 653
727. Worcester Corset Company, Worcester, Mass. Corsets. 653
728. Wright, R. C., Denver, Col. Overcoat, business suit, and dress and waistcoat. M. T. ex. 652
729. Yund, Kennedy & Yund, Amsterdam, N. Y. Underwear and hosiery. 657

GROUP 105.

Furs and Fur Clothing.

Exhibits in this group are installed in Sec. G, Block 1, north.

730. Burkhardt, A. E., Company, Cincinnati. Furs. 660
731. Gunther's, C. G., Sons, New York. Furs and skins, stuffed animals. 660
732. Liebes, H., & Co., San Francisco. Manufactured furs. 662
733. Shayne, & Co., Chicago. Furs, fur garments and pelts. 660
734. Treadwell, Geo. C., Company, Albany, N. Y. Seal fur garments. 662
735. Wolf & Perolat, Chicago. Furs and garments, mounted animals. 660

GROUP 106.

Laces, Embroideries, Trimmings, Artificial Flowers, Fans, etc.

Exhibits in this group are installed in Gallery, Sec. F.

736. Ball, Mrs. J. J. T., Denver, Col. Needle work. 665
737. Ball & Socket Fastner Co., Boston, Mass. Fastners for gloves, coats, bags, etc. 668
738. Ballou, B. A., & Co., Providence, R. I. Safety pins. 668
739. Bodenmann, Johannes, Chicago. Embroideries. 669
740. Besuzzi, Miss, Denver, Col. Embroidered screen. 669
741. Brown, Mrs. J. K., Pueblo, Col. Drawn work handkerchief. 664
742. Brown, Mrs. W. T., Indianapolis, Ind. Embroidered piano cover. 669
743. Cass, Mrs. O. D., Denver, Col. Lunch cloth. 665
744. Clarke, Nellie Goodrich, Economy, Ind. Embroidered center piece. 669
745. Coffin, Minnie A., Indianapolis, Ind. Portiere. 669
746. Colcord, Mrs. A. B., Kokoma, Col. Hand made lace cap. 664
747. Cole, Stella M., Indianapolis, Ind. Embroidered curtain. 669
748. Cutter, Mrs. Edna M., Denver, Col. Lace handkerchief. 664
749. Darrow, Mrs. F. R., Denver, Col. Handkerchief. 664

UNITED STATES.

750. Deitz, Mrs. Anna L. Denver, Col. Lace. 664
751. Ellis, Mrs. Jessie D., Rensselaer, Ind. Embroidered table cloth. 669
752. Ellis, Mrs. Henry H., Pueblo, Col. Needlework. 665
753. Excelsior Quilting Company, New York. Fancy stitching and quilting. 665
754. Farwell, Miss C. C., Denver, Col. Needlework. 665
755. Fjelde Sisters, Minneapolis, Minn. Embroidered banners. 669
756. Flynn, Miss Mary, Denver, Col. Needlework. 665
757. Gerschel, Victor, & Co., New York. Pearl buttons. 668
758. Gibbs, Mrs. A. R., Denver, Col. Handkerchief. 665
759. Harlow, Mrs. Geo. P., Denver, Col. Embroidery. 665
760. Hartwell, Miss Mary, Denver, Col. Lace cap and handkerchief. 664
761. Hawes, Mrs. Jesse, Greeley, Col. Needle work. 665
762. Heiberger, F. J., Jr., Washington, D. C. Table cloth made by a journeyman, E. Bosco, of 5,830 pieces, M. T. ex. 665
763. Jantzen, Miss Clara, Denver, Col. Embroidered center piece. 665
764. Jautzen, Miss Hermanna, Denver, Hand-made lace handkerchief. 664
765. Jenkins, Mrs. J. F., Los Angeles, Cal. Tapestry pictures. 669
766. Kent, Miss Clara M., Denver, Col. Embroidered doilies. 665
767. Levering, Amelia F., La Fayette, Ind. Embroidered table cloth. 669
768. Lowe, Miss Elizabeth, Denver, Col. Embroidered doilie. 665
769. Lusk, Miss Ida, Vincennes, Ind. Embroidered towel. 669
770. Major, Mrs. Fannie, Shelbyville, Ind. Table cloth. 669
771. McCoy, Mrs. Hattie T., Rensselaer, Ind. Embroidered cushion. 669
772. McNary, Mrs. J. T., Logansport, Ind. Embroidered piano cover. 669
773. Minnis, Sallie, Philadelphia. Embroidered dinner cloth. 665
774. Moore, Mrs. T. H., Denver, Col. Hand-made lace. 664
775. New England Pin Company, Winsted, Conn. Pins. 668
776. New England Whalebone Manufacturing Company, New York. Articles made from whalebones. 668
777. Nicholson, Mrs., Colorado Springs, Col. Embroidered center piece. 665
778. Owens, Mrs. E. T., Pueblo, Col. Lace handkerchief. 664
779. Perrian, Mrs. S. J., Highlands, Col. Lace handkerchiefs. 664
780. Renk, Miss Bertha A., Milwaukee, Wis. Art embroidery. 669
781. Reeves, Mrs. J. Franklin, Richmond, Ind. Embroidered curtains. 669
782. Reynolds, Mrs., South Bend, Ind. Table scarf. 668
783. Richardson & DeLong Bros., Philadelphia. Patent hooks and eyes. 668
784. Ridgway, Mrs. M.M.G., Indianapolis, Ind. Embroidered cushion cover. 669
785. Saint Elizabeth's Guild of Holy Trinity Church, Pueblo, Col. Embroidered altar cloth and communion linen. 665
786. Sallada, Mrs., Denver, Col. Hand-made lace. 664
787. Sea, Clara, Indianapolis, Ind. Embroidered table cloth. 669
788. Shilling, Miss Ida W., Aspen, Col. Embroidered doilies. 665
789. Skewes, Mrs. Rose Meeker, Greeley, Col. Hand-made lace bertha. 664
790. Smith, Mrs. Marie Campbell, Boulder, Col. Infant's dress. 665
791. Solsbury, Cora, Indianapolis, Ind. Embroidered table decorations. 669
792. Solsbury, Pearl, Indianapolis, Ind. Embroidered table decorations. 669
793. Sperry, Mrs. H.L., Indianapolis, Ind. Embroidered table mat. 669
794. Stevens, Miss E. J., Washington, D. C. Tapestries. 670
795. Strode, Miss F., Denver, Col. Decorated scarf. 665
796. Studebaker, Mrs. Clem, South Bend, Ind. Embroidered bed-room furnishings. 669
797. Taylor, Miss Ida, Logansport, Ind. Embroidered table mat. 669
798. Union City Thimble Co., Union City, Conn. Thimbles. 668
799. Vanatta, Mrs. J. K., Colorado City, Col. Lace handkerchief. 664
800. Webster, Miss A. S., Denver, Col. Needle work. 665
801. Wells, Mrs. S. W., Highlands, Col. Lace handkerchiefs. 664
802. White, Mrs. Lillian, Eau Claire, Wis. Art needlework. 669
803. Williamson, Mary A., Indianapolis, Ind. Art embroideries. 669
804. Williamson, Mrs. J. A., Indianapolis, Ind. Cushion. 669
805. Williamson, Mrs. Sallie A., Indianapolis, Ind. Embroidered table cloth. 669
806. Williamson, M. A., Indianapolis, Ind. Embroidered table cloth. 669

GROUP 107.

Hair Work, Coiffures and Accessories of the Toilet.

Exhibits in this group are installed in Gallery, Sec. G.

807. Burnham, E., Chicago. Hair goods, jewelry, tools, etc. 673

808. India Rubber Comb Company, New York. Combs and brushes. 675

For exhibit see page 350 and 646

809. Moutoux, Wm. E., New York. Hair devices and jewelry. 672

810. Nicol & Co., Chicago. Hair tools and heaters. 674

811. Palmetto Fibre Company, Chicago. Brushes. 675

GROUP 108.

Traveling Equipments, Valises, Trunks, Toilet cases, Fancy Leather work, Canes, Umbrellas, Parasols, etc.

Exhibits in this group are installed in Gallery, Sec. P.

812. Cheval Standard Co., New York. Horse measuring canes. 681

DEPARTMENT H.—MANUFACTURES.

813. DeMuth, Wm., & Co., New York.
a Smokers' articles. 680
b Walking canes. 681
814. Erickson Geo., & Co., Chicago.
 Hammock nets and fixtures. 676
815. Hacker, J. C., New York. Leather goods and novelties. 680
816. Hirsh & Bro., Philadelphia. Umbrellas and parasols. 682
817. Kaldenberg, F. J. Company, New York.
a Pipes and smokers' articles, India rubber goods, etc. 680
b Canes and umbrella sticks. 681
818. Lightfoot, Annette M., Providence, R. I. Fancy leather frames. 680
819. Mills, Knight & Co., Boston. Fancy leather work. 680
820. Palica, F. J., Racine, Wis. Trunks. 679
821. Raab, J. David, Chicago. Bureau trunks. 679
822. Wilt, Chas. T., Chicago. Travelers' equipments. 679

GROUP 109.

Rubber Goods, Caoutchouc, Gutta Percha Celluloid and Zylonite.

Exhibits in this group are installed in Gallery, Sec. F.

823. American Rubber Co., Boston. Mackintoshes, rubber and oil clothing. 683
824. Bailey, C. J., & Co., Boston. Rubber brushes and novelties. 683
 For exhibit see page 489.
825. Elastic Tip Company, Chicago. Rubber specialties. 686
826. India Rubber Comb Company, New York. Hard and soft rubber goods. 686
 For exhibit see page 350 and 646
827. Kaldenberg, F. J., & Co., New York. India rubber goods, etc. 691
828. Stoughton Rubber Company, Boston. Rubber garments. 683
829. Towers, A. J., Boston. Waterproof clothing. 683

GROUP 110.

Toys and Fancy Articles.

Exhibits in this group are installed in Gallery, Sec. F.

830. Barney & Berry, Springfield, Mass. Ice and roller skates. 695
831. Converse, Morton E., Winchendon, Mass. Toys and novelties. 693
832. Estes, E. B., & Sons, New York. Turned wooden novelties. 694
- 832a. Hansen, E., Philadelphia. Art novelties; inlaid pearl mosaics. 695
833. Ives, Blakeslee & Williams Co., New York. Mechanical toys. 693
834. Jansen, Ed., New York. Fancy goods. 695
835. Joy & Seliger, Newark, N. J. Fancy articles. 695
 For exhibit see page 351.
836. Magie Introduction Company, New York. Notion specialties. 695
837. Parker Bros., Salem, Mass. Parlor games and toys. 693

838. Pattberg, Lewis & Bro., Jersey City, N. J. Fancy goods. 694
839. Pia, Peter F., New York. Pewter toys. 693
840. Rice & Hochster, New York. Tortoise shell articles. 695
841. Rosenblatt & Co., Chicago. Plush and leather boxes, etc. 694
842. Ross, M. B., Cambridgeboro, Pa. Game. 693
843. Tabolewski, Mrs. A. J. Denven., Col. Patent game and badge "1893 or Chicagoed." 693
844. Wahl, Emil, Fancy Bone Manufacturing Company, Philadelphia. Fancy bone goods. 695

GROUP 112.

Scales, Weights and Measures.

Exhibits in this group are installed in Sec. Q, Block 1, north.

845. Buffalo Scale Company, Buffalo, N. Y. Scales. 706
846. Chicago Scale Company, Chicago. Scales and balances. 707
847. Fairbanks, E. & T., Co., St. Johnsbury, Vt. Scales, weights and measures. 706
 For exhibit see page 769.

848. Kirk & Bailey, Cincinnati. Family scales, bicycle grindstones, etc. 706
849. Metric Metal Company, Erie, Pa. Gas meters. 711
850. Mogul Manufacturing Company, New York. Spring scales. 706
851. National Meter Company, Brooklyn, N. Y. Water meters. 711
852. Neptune Meter Co., New York. Water meters. 711
853. Springer Torsion Balance Company, New York. Scales. 706
854. Thomson Meter Company, Brooklyn, N. Y. Water meters. 711

GROUP 113.

Material of War Ordnance and Ammunition; Weapons and Apparatus of Hunting, Trapping, etc.; Military and Sporting Small Arms.

Exhibits in this group are installed in Sec. Q, Block 3, south.

855. American Projectile Company, Boston. Ammunition for light artillery and machine guns; battle ship. 715
856. Bannerman, Francis, New York. Guns. 714
857. Bridgeport Gun Implement Company, Bridgeport, Conn. Gun implements. 718
858. Brooks, C. C., Arms & Tool Co., Portland, Me.
a Knives, etc. 717
b Shot guns and rifles. 718
859. Burgess Gun Company, Buffalo, N. Y. Fire arms. 714
860. Carpenter Steel Company, Reading, Pa. Steel and material. 716
861. Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Fire arms. 714

UNITED STATES.

862. **Ideal Manufacturing Company**, New Haven, Conn. Gun implements and ammunition. 718
863. **Jorden, Louis, Chicago**. Shotguns. 718
864. **Lefever Arms Company**, Syracuse, N. Y. Hammerless guns. 718
865. **Marlin Fire Arms Company**, New Haven, Conn. Fire arms. 714
866. **Parker Bros.**, Meriden, Conn. Shotguns. 718
867. **Remington Arms Company**, Ilion, N. Y. Fire arms. 714
868. **Smith & Wesson**, Springfield, Mass. Revolvers. 714
For exhibit see page 347.
869. **Union Metallic Cartridge Company**, Bridgeport, Conn. Metallic ammunition. 714
870. **Winchester Repeating Arms Company**, New Haven, Conn.
a Military small arms and ammunition. 714
b Sporting and hunting fire arms. Reloading tools. 713

GROUP 114.

Lighting Apparatus and Appliances.

Exhibits in this group are installed in Sec. N, Block 3, south.

871. **American Automatic Lighting Co.**, Meriden, Conn. Lighting system. 719
872. **American Lamp and Brass Co.**, Trenton, N. J. Lamps. 719
873. **Dietz, R. E.**, Chicago. Lamps and lanterns. 720
874. **General Electric Company**, New York and Boston. Lamp posts, brackets and electric lamps. Dept. J 722
875. **Globe Light & Heat Co.**, Chicago. Street lamps, gas and electric fixtures, reflectors and heating specialties. 720
876. **Hohenstein, H.**, New York. Lamp and candle shades, candles, etc. 719
877. **Rochester Lamp Company**, New York. Lamps. 719
878. **Shultz Gas Fixture & Art Metal Co.**, Baltimore. Gas and electric fixtures; ornaments. 721
879. **Steam Gauge & Lantern Co.**, Syracuse, N. Y. Lamps and lanterns. 720
880. **Swan & Whitehead**, Trenton, N. J. Lamps and fancy articles. 719

GROUP 115.

Heating and Cooking Apparatus and Appliances.

Exhibits in this group are installed in Sec. O, Blocks 3 and 4.

881. **Abendroth Bros.**, New York.
a Furnaces. O-3 725
b Hot water heaters. 726
c Stoves and ranges. 727
882. **America Heating Company**, Rockford, Ill. Hot water heaters. O-3 727
883. **American Radiator Company**, Chicago. Steam and water radiators. O-4 726
884. **Beckwith, P. D.**, Estate of, Dowagiac, Mich. Stoves. O-3 727
885. **Bailey Oven Company**, Mansfield, Mass. Ovens. Dept. A, E-A-4 727

886. **Bucks Stove & Range Co.**, St. Louis. Stoves and ranges. 727
888. **Chapman, H. M.**, Chicago. Boiler and heaters. O-3 726
889. **Chicago Clothes Dryer Works**, Chicago. Laundry stoves and clothes dryers. O-3 727
890. **Chicago Stove Works**, Chicago. Ranges and stoves. O-4 727
891. **Clark, George M., & Co.**, Chicago. Gas and gasoline stoves. O-3 728
For exhibit see page 422.
892. **Cleveland Co-operative Stove Company**, Cleveland, Ohio. Stoves and ranges. O-4 727
893. **Collins & Burgie Co.**, Chicago. Stoves and ranges. O-4 727
894. **Co-operative Foundry Company**, Rochester, N. Y. Stoves and heaters. O-3 727
895. **Cortland Howe Ventilating Stove Company**, Cortland, N. Y. Heating stoves. O-3 727
896. **Cribben, Sexton & Co.**, Chicago. Stoves and ranges. O-4 727
897. **Daemicke, Paul J.**, Chicago. Refrigerator, counter block, etc., for butchers. 731
898. **Daggett, W. A., & Co.**, Vineland, N. J. Roaster and baking pan. O-3 730
899. **Dangler Stove & Manufacturing Co.**, Cleveland, Ohio. Vapor stoves and ranges. O-3 726
900. **Dearborn Duster Company**, Chicago. Feather dusters. O-3 730
901. **Devlin, Thomas, & Co.**, Philadelphia. Radiators, fittings and castings. O-3 726
902. **Enterprise Manufacturing Company**, Philadelphia. Hardware specialties. O-3 730
903. **Everhard, Mary M.**, St. Joseph, Mich. Kneading board. 730
904. **Excelsior Manufacturing Company**, St. Louis. Stoves. O-3 727
905. **Farquhar Heating Company**, Chicago. Furnaces and heaters. O-3 725
906. **Fuller, Warren Company**, Milwaukee, Wis. Furnaces and heating apparatus. O-3 725
907. **Gorton & Lidgerwood Co.**, New York. House heating boiler. O-3 726
908. **Goodell Company**, Antrim, N. H. Apple and potato parers, seed sowers, cherry stoners, etc. O-3 730
909. **Graff & Co.**, Chicago.
a Furnaces. O-3 725
b Ranges. 727
910. **Green, Mrs. M. A.**, Mountclair, Col. Kitchen utensil—cover holder. 730
911. **Griffing, A. A.**, Iron Company, Jersey City, N. J. Radiators. O-3 726
912. **Hambel, Mrs. A. J.**, Chicago. Cake beater. 730
913. **Hill, Whitney & Co.**, Boston. Cookers, broilers and frying pans. O-3 730
914. **Howard Thermostat Company**, Syracuse, N. Y. Heat regulators. O-3 725
915. **Huette-Barler Manufacturing Company**, Chicago. Oil heaters. O-3 729
916. **Jackson, Edwin A., & Bros.**, New York. Grates. O-3 724

DEPARTMENT H.—MANUFACTURES.

917. Johns, B. B., Philadelphia. Stove and metal polish. O-3 727
918. Kahn, F. & L., & Bros., Hamilton, Ohio. Stoves and ranges. O-3 727
919. Kelsey Furnace Company, Syracuse, N. Y. Furnaces. O-3 725
920. Lawton, Mrs. James M., New York. Patent maize grater. 730
921. Lawton, Mrs. Jas. M., New York. Corn scraper. 730
922. Magee Furnace Company, Boston.
a Furnaces. O-3 725
b Stoves and ranges. 727
923. Mason & Davis Company, Chicago. Ranges and laundry stoves. O-3 727
924. Meisselbach & Bro., Newark, N. J. Can openers. O-3 730
925. Michigan Stove Company, Detroit. Mich. Stoves and ranges. O-4 727
926. Milford Manufacturing Company, Milford, Ohio. Carpet sweepers. O-3 730
927. Miller, Wm., Range & Furnace Co., Cincinnati.
a Ranges, stoves and ovens. O-3 727
b Kitchen utensils. 730
928. Milwaukee Gas Stove Company, Milwaukee, Wis. Gas ranges and heaters. O-3 728
887. Milwaukee Tack and Nail Co., Milwaukee, Wis. Army ovens, cookers, etc. O-3 727
929. New Era Gas Fuel Appliance Co., Chicago. Gas ranges, heaters, etc. O-3 728
930. North-Western Stove Repair Company, Chicago. Stove repairs, water-backs, etc. O-3 727
931. Pease, J. F., Furnace Company, Syracuse, N. Y. Hot water, steam and combination heaters. O-4 725
932. Peninsular Stove Company, Detroit, Mich.
a Furnaces. 725
b Stoves, ranges. O-4 727
933. Powers Duplex Regulator Company, Chicago. Temperature regulators. O-3 726
934. Pugh & Grovenor, Casselton, N. D. Stoves and drums. 727
935. Rathbone, Sard & Co., Chicago. Stoves and ranges. O-4 727
936. Reading Stove Works, Reading, Pa. Stoves, heaters, ranges and hot air furnaces. 727
937. Resor, Wm., & Co., Cincinnati, O. Stoves and ranges. O-4 727
938. Richardson & Boynton Co., Chicago.
a Furnaces, ranges and steam heating apparatus. O-4 725
b Heating apparatus. 726
c Ranges. 727
939. Richer, Frank, New York. Coffee and tea pots, urns and mills. O-3 730
940. Ridgway Furnace Company, Boston. Furnaces. O-3 725
941. Romney, Mrs. Caroline Westcott, Chicago. Oven fixtures for conservation of heat and foot warmer. 727
942. Ronalds & Co., New York. Boilers and copper ware. O-3 727
943. Smith & Anthony Stove Co., Boston.
a Heaters. 726
b Ranges and furnaces. 727
944. Spicer Stove Company, Providence, R. I.
a Furnaces. 725
b Stoves and ranges. 727
946. Stone M'fg Co., Columbus, O. Clothes wringers. 730
947. Stroud, Jas., New York. Roasting pans and rollers. O-3 730
945. Thomas, Roberts, Stevenson Company, Philadelphia. Stoves and ranges. O-3 727
948. Tuttle & Bailey Mfg. Co., New York. Registers, ventilators, screens, pedestals, etc. O-3 726
949. Warner, J. W., Oneida, N. Y. Hot water heater and boiler. O-3 726
950. White & Friant, Grand Rapids, Mich. Carpet sweepers. O-3 730
951. Wilcox Water Heater Company, Chicago.
a Hot water heater and radiator. 726
b Dish washer. 730
952. Woods, Sherwood & Co., Lowell, Mass. White wire household goods. O-3 730
953. Woven Down Duster Company, Chicago. Dusters. O-3 730
954. Wrought Iron Range Company, St. Louis.
a Furnaces. 725
b Stoves and ranges. 727
c Kitchen utensils. 730

GROUP 116.

Refrigerators, Hollow Metal Ware, Tin-ware, Enameled Ware.

Exhibits in this group are installed in Sec. P, Block 4, south; Sec. H, Block 3; Sec. G, Block 4 and Sec. N, Block 4.

955. Alaska Refrigerator Company, Muskegon, Mich. Refrigerators, beer coolers, etc. P-4 731
956. Belding Manufacturing Company, Chicago. Refrigerators. P-4 731
957. Chapman Manufacturing Company, Meriden, Conn. Hardware specialties. G-4 733
958. Grand Rapids Refrigerator Company, Grand Rapids, Mich. Refrigerators. P-4 731
959. Griswold Manufacturing Company, Erie, Pa. Cast iron hollow ware. G-4 732
960. Henning Wiren, Chicago. Beverage fountain. H-3 731
961. Hurd Refrigerator Company, Duluth, Minn. Refrigerators. P-4 731
962. Iron Clad Manufacturing Company, New York. Enameled ware; milk cans. N-4 734
963. Keen & Hagerty, Baltimore. Tin-ware. G-4 733
964. Kohler, Hayssen & Stehm Mfg. Co. Sheboygan, Wis. Enameled ware. N-4 734
965. Lippincott, Chas. & Co., Philadelphia. Soda water apparatus. H-3 731

UNITED STATES.

966. Low Art Tile Company, Chelsea, Mass. Soda fountain. H-3 731
967. Matthew, John, Apparatus Company, New York. Soda water apparatus. H-3 731
968. Northern Refrigerator Company, Grand Rapids, Mich. Refrigerators. P-4 731
969. Puffer, A. D., & Sons, Boston. Soda water apparatus. H-3 731
970. Richardson, Chas. H., Gloucester, Mass. Ice crusher. P-4 731
971. Romney, Mrs. Caroline Westcott, Chicago. Refrigerators and cooling room for slaughter houses. 731
972. Smith & Anthony Stove Co., Boston. Kettles. G-4 732
973. Sperry, D. R., & Co. Batavia, Ill. Cooking utensils. G-4 732
974. Thomson, J. S., Erie, Pa. Refrigerators. P-4 731
975. Tufts, Jas. W., Boston. Soda water apparatus. H-3 731
976. Vienna Enamel & Stamping Co., Chicago. Enameled steel ware. N-4 734
977. Vollrath, The Jacob J., Manufacturing Company, Sheboygan, Wis. Iron ware. N-4 734
978. Wagner Manufacturing Company, Sidney, Ohio. Hollow ware. G-4 732
979. Wisconsin Refrigerator Company, Eau Claire, Wis. Hardwood household refrigerators. P-4 731

GROUP 117.

Wire Goods and Screens, Perforated Sheets, Lattice Work, Fencing, Etc.

Exhibits in this group are installed in Sec Q, Blocks 2 and 3.

980. Baackes Wire Nail Company, Cleveland, Ohio. Wire of every description. Q-3 735
981. Burrowes, E. T., & Co., Portland, Me. Wire window screens and doors. Q-3 738
982. Clinton Wire Cloth Company, Clinton, Mass. Wire of all kinds. Q-3 735
983. Gilbert & Bennett Manufacturing Co., Chicago. Wire goods. Q-3 735
984. Roebling's, John A., Sons Company, Chicago. Wire of all descriptions. Q-2 735
- For exhibit see page 358.
985. Translucent Fabric Company, Clinton, Mass. Translucent fabrics for windows, transoms, etc. Q-3 735
986. Trenton Iron Company, Trenton, N. J. Iron and steel wire. Dept. G 742
987. United States Wire Mat Company, Decatur, Ill. Wire mats and matting. Q-3 741
988. Washburn & Moen Manufacturing Co., Worcester, Mass. Wire of all kinds. Q-3 742
- For exhibit see page 357.

GROUP 118.

Wrought Iron and Plain Metal Exhibits.

Exhibits in this group are installed in Sec. G, Block 4, north, and Sec. H, Block 3, south.

989. Barnum, E. T., Detroit, Mich. Wire and ironwork. H-3 743
990. Bayer & Scherbuer, New York. Artistic wrought iron, grille work, etc. H-3 743
991. Burton, A. B., Philadelphia. Iron posts, piles and poles. H-3 745
992. Canton Steel Roofing Company, Canton, Ohio. Sheet metal roofing, siding, etc. H-3 745
993. Central Iron & Steel Works, Brazil, Ind. Wrought iron turnbuckles. H-3 745
994. Champion Iron Company, Kenton, Ohio. Ironwork and ornamental iron. H-3 743
995. Columbus Ornamental Iron Mfg. Co., Ornamental iron forgings. H-3 743
996. Cortright Metal Roofing Company, Philadelphia. Metal tiles and shingles. H-3 745
997. Hainsworth, F. & Son, Chicago. Iron grille work. H-3 743
998. Hogan, John, Fitchburg, Mass. Horseshoes. G-4 746
999. N. W. Horse Nail Manufacturing Company, Chicago. Horseshoes and nails. G-4 746
1000. Omniform M'f'g Co., New Brunswick, N. J. Horse shoes, and methods of shoeing horses. 746
1001. Putnam Nail Company, Boston. Horseshoe nails. G-4 746
1002. Rhode Island Perkins Horseshoe Company, Providence, R. I. Horseshoes and toe calks. G-4 746
- For exhibit see page 765.
1003. Russell, Wm., Cincinnati. Horseshoes. G-4 746
1004. Van Avery, C. M., Jr., Bronson, Mich. Iron and steel forgings. H-3 745
1005. Victor Toe Calk Company, Boston. Toe calks. G-4 746
1006. Winslow Bros. Company, Chicago. Ornamental iron. H-3 743
- For exhibit see page 1000.

GROUP 119.

Vaults, Safes, Hardware, Edge Tools, Cutlery.

Exhibits in this group are in Sec. P, Blocks 3 and 4, except safes, which are in Sec. Q, Block 2.

1007. American Screw Company, Providence, R. I. Screws, bolts, rivets, etc. 747
1008. Ames, Oliver, Sons Corporation, North Easton, Mass. Shovels, spades, etc. 748
1009. Atlas Tack Corporation, Boston. Tacks, brads, nails, glaziers' points, etc. 747
1010. Automatic Knife Company, Middletown, Conn. Pocket knife. 751

DEPARTMENT H.—MANUFACTURES.

1011. Bahmann, Mosler & Co., Cincinnati, Ohio. Fire and burglar proof safes, vaults, locks, etc. 752
1012. Baker, L. A., Elgin, Ill. Shingle nailing machine. 748
1013. Blount Manufacturing Company, Boston. Hardware specialties. 747
For exhibit see page 356.
1014. Bohanan, Wilson, Brooklyn, N. Y. Latches, locks, handles, etc. 747
1015. Bommer Bros., Brooklyn, N. Y. Spiral spring hinges. 747
1016. Bardsley, Jos., New York. Wooden door knobs, door springs, checks and checking spring hinges. 747
1017. Buck Bros., Millbury, Mass. Light edge tools. 749
1018. Buck, Chas., Millbury, Mass. Edge tools. 749
1019. Campbell Cutlery Company, Syracuse, N. Y. Cutlery. 751
1020. Carey Safe Company, Buffalo, N. Y. Safes. Q-2 752
1021. Carnes, J. H. & Co., New York. Corkscrews. 10-E-57 757
1022. Chicago Spring Butt Company, Chicago. Builders' hardware. 747
1023. Cincinnati Tool Company, Cincinnati. Mechanics' tools. 748
1024. Clauss, Shear Company, Fremont, Ohio. Shears, scissors and knives. 751
1025. Detroit Cork Screw Company, Detroit, Mich. Corkscrews; knife and cork-screw combined. 751
1026. Deal, Josiah J., Canton, Ohio. Combination locks. 747
1027. Denver Hardware M'f'g Co., Denver, Col. Builders' hardware. 747
1028. Detroit Safe Company, Detroit, Mich. Safes, vaults, vault doors and locks. Q-2 752
1029. Eagle Lock Company, Terryville, Conn. Locks, keys and hardware specialties. 747
1030. Geneva Tool Company, Geneva, Ohio. Hand framing tools. 748
1031. Gibson, Wm. D., Company, Chicago. Springs. 747
For exhibit see page 1006.
1032. Hall Safe & Lock Co., Chicago. Vaults, safes locks, etc. Q-2 752
1033. Hatch Cutlery Co., South Milwaukee, Wis. Shears scissors, pocket cutlery and razors. 751
1034. Hayes Gold Medal File Company, Philadelphia. Files. 750
1035. Herring, Hall Marvin Co., New York. Vault doors, safes and boxes. Q-2 752
1036. Hillebrand & Wolf, Philadelphia. Locks and keys. 747
1037. Ide Wrench Company, Troy, N. Y. Chain and pipe wrenches 748
1038. Iowa Farming Tool Company, Ft. Madison, Iowa. Hand farming tools. 748
1039. Ives, Hobart B., & Co., New Haven, Conn. Sash locks and bolts. 747
1040. Jennings, C. E., & Co., New York. Carpenter's tools. 749
1041. Kearney & Foot Co., New York. Files and rasps. 750
1042. Knickebocker Ice Co., Chicago. Ice cutting tools. Dept. G 749
1043. Lynch Manufacturing Company, Madison, Wis. Lock buckles and illustrations. 747
1044. Maydole, David, Hammer Company, Norwich, N. Y. Hammers. 748
1045. McCaffrey File Company, Philadelphia. Files and rasps. 750
1046. Miller Lock Company, Philadelphia. Locks. 747
1047. Mills, A. M., Chicago. Iron safes. Q-2 752
1048. Mosler, Bahmann & Co., Cincinnati, Ohio. Fire and burglar proof safes, vaults, locks, etc. 752
1049. Mosler Safe Co., Hamilton, O. Safes, etc. 752
1050. Munger Cotton Manufacturing Company, Chicago. Hardware specialties. 747
1051. National Safe & Lock Co., Cleveland, Ohio. Safes, vaults and vault fronts. 752
1052. Nicholson-File Company, Providence, R. I. Files and rasps. 750
For exhibit see page 355.
1053. Northfield Knife Company, Northfield, Conn. Pocket cutlery. 751
1054. Norton Door Check & Spring Co., Boston, Mass. Door check and spring for doors. 747
For exhibit see page 826.
1055. Osborne, C. S., & Co., Newark, N. J. Saddle and harness tools. 748
1056. Rhode Island Tool Company, Providence, R. I. Machinists' supplies. 747
1057. Rose, Wm., & Bros., Sharon Hill, Pa. Mechanics' tools. 748
1058. Russell & Erwin Manufacturing Co., New Britain, Conn. Hardware; house furnishing goods. 747
1059. Schenck, M. B., & Co., Meriden, Conn. Casters. 747
1060. Snell Manufacturing Company, Fiskdale, Mass. Boring tools. 749
1061. Stanley Rule & Level Co., New Britain, Conn. Carpenters' tools. 749
1062. Sternbergh, J. H., & Son, Reading, Pa. Bolts, nuts, rivets, screws, etc. 747
1063. Torrey, J. R., Razor Co., Worcester, Mass. Razors. 751
For exhibit see page 1034.
1064. Van Wagoner & Williams Co., Cleveland, Ohio. Hinges; spring. 747
1065. White, J. C., Waseca, Minn. Nail counter. 747
1066. Withington & Cooley Manufacturing Co., Jackson, Mich. Hand, farm and garden tools. 749

GROUP 120.

Plumbing and Sanitary Materials.

1067. Alberene Stone Company, New York. Sanitary and plumbing specialties. 755
1068. Dawes & Myler, New Brighton, Pa. Bath tubs, laundry trays, etc. 753
1069. Day Manufacturing Company, Detroit, Mich. Self heating bath tubs and bath tub heaters. 753
1070. Instantaneous Water Heating Company, Chicago. Water heaters used with gas. 753
1071. Kelly, Thos. & Bros., Chicago. Water closets and wash basins. 754
1072. Kilboure & Jacob Manufacturing Co., Columbus, Ohio. Wrought steel sinks. 755

UNITED STATES.

1073. Lang, E. M., & Co., Portland, Me. Stick, drop and wire solder. 756
1074. Lehner, Johnson, Hoyer Manufacturing Company, Chicago. Plumbers' brass goods. 756
1075. McCambridge & Co., Philadelphia. Brass material for plumbing, porcelain basins, tubs, etc. 753
1076. Mosely Folding Bath Tub Company, Chicago. Folding bath tubs and water heaters. 753
1077. Norton Bros., Chicago. Water closets. 754
1078. Oswego Indurated Fibre Company, Oswego, N. Y. Bath tubs, laundry trays, sinks, etc. 753
1079. Peck Bros. & Co., Chicago. Brass work for plumbers, etc. 756
1080. Randolph & Clowes, Waterbury, Conn. Copper range boilers and brass kettles. 756
1081. Smith & Anthony Stove Co., Boston. Water closets, lavatories, bath tubs, sinks, etc. 754
1082. Standard Manufacturing Company, Pittsburg, Pa.
 a Bath tubs, hollow ware. 753
 b Plumbers' iron ware and sanitary goods. 756
1083. Steel Clad Bath Tub Co., Detroit, Mich. Bath tubs. 753
1084. Stewart Ceramic Company, New York.
 a Wash tubs, sinks, etc. 755
 b Bath tubs. 753
1085. Strong, Boyce & Co., Indianapolis, Ind. Water closets, washstands, bowls and fixtures. 754
1091. Buddington, Mr. & Mrs. F. E., Chicago. Machine for dress cutting system.
1092. Campbell Cutlery Co., Syracuse, N. Y. Display trays for cutlery, etc.
1093. Cornwell, Elmira, Chicago. Tailor dress cutting system.
1094. Daemicke, Paul J., Chicago. Butchers' supplies.
1095. Diamond Match Company, Chicago. Matches.
1096. Faries, Robert, Decatur, Ill. Display of fixtures for stores.
1097. Hoffman, Geo. Wm., Indianapolis, Ind. Metal polishes.
1098. Howe, Mrs. H. N., Kansas City, Mo. Cyclographic dress-cutting system.
1099. Improved Cloak Rack Co., New York. Revolving cloak stands for exhibiting cloaks.
1100. Jackson Mrs. H. A. Co., Chicago. Instruments for cutting patterns.
1101. Knickerbocker Ice Co., Philadelphia. Ice cutting tools. A-8 511
1102. Leger, Edward, & Son, Chicago. Display stands and fixtures.
1103. Matchless Metal Polish Company, Chicago. Metal polishes, etc.
1104. Meyers Putz Pomade Company, Boston. Liquid metal polish.
1105. O'Neil, Mrs. E. J., Leadville, Col. Patent tidy holder or fastener.
1106. Overbaugh & Hartmann, New York. Confectioners' cartoons. Dept. A.
1107. Palmenberg's Sons, J. R., New York. Window display fixtures and forms.
1108. Palm Letter Company, Cincinnati. Transfer letters and ornaments.
1109. Paul, John C., & Co., Chicago. Metal polish.
1110. Puissegur, Sophie P., New York. Varnishes.
1111. Queen Silver Polish Company, New York. Silver polish.
1112. Rouke, Mrs. M. E., Denver, Col. Original designs in needlework.
1113. Stafford, N., New York. Metal badges, checks, numbers and signs.
1114. Stearns, Mrs. B. A., Woburn, Mass. Dress cutting system.
1115. Washington, Mme., Washington, D. C. Dress cutting patent.
1116. White, Otis C., Worcester, Mass. Ball and cone joints.

GROUP 121.

Miscellaneous Articles of Manufacture Not Heretofore Classed.

Exhibits in this group are installed in Gallery, Sec. F.

1086. Alpena Spool Co., Alpena, Mich. Spool and curtain poles.
1087. Ayers-Jackson H. Co., Chicago. Tailor system dress cutting.
1088. Brown Bros., M'f'g Co., Chicago. Vault lights.
1089. Brown, Mrs. Harriet A., Boston, Mass. Scientific rule for dress cutting.
1090. Bugbee, Dana J., Chicago. Buffalo horns manufactured into vases and various ornaments with gold and silver mountings.
- The Leader, Chicago, Ill. Dry goods. For exhibit see page 218.
- Geo. H. Taylor & Co., Chicago, Ill. Paper. For exhibit see page 425.
- Marder, Luse & Co., Chicago, Ill. Type. For exhibit see page 643.
- Clough & McConnell, New York. Cork screws. For exhibit see page 822.
- Hancock Inspirator Co., Boston, Mass. Inspirators. For exhibit see page 816.
- Minot, Hooper & Co., New York. Cotton goods. For exhibit see page 422.

Machinists' Supply Co., Chicago, Ill. Machinists' tools.

For exhibit see page 485.

Queen City Printing Ink Co., Chicago.

Ill. Printing inks.

For exhibit see page 352.

Simpson, Hall, Miller & Co. Silver plated ware.

For exhibit see page 827.

Wm. Simpson, Sons & Co., Philadelphia, Pa. Printed cotton goods.

For exhibit see page 766.

Geo. H. Friend Paper Co., Chicago.

Ill. Paper.

For exhibit see page 217.

J. J. Ryan, Chicago. Brass-founders. For exhibit see page 474.

Koopman & Co., Boston, Mass. Artistic furniture.

For exhibit see page 1003.

Western Valve Co., Chicago, Ill. Valves.

For exhibit see page 358.

American Strawboard Co., Chicago, Ill. Strawboard.

For exhibit see page 428.

Ypsilanti Dress Stay Co., Ypsilanti, Mich., Dress stays.

For exhibit see page 878.

Andrews, Demorest Seating Co., New York, N. Y. Opera chairs and furniture.

For exhibit see page 821.

American Vault Deposit & Lock Co., Elizabeth, Pa. Vaults and safes.

For exhibit, see page 679.

Haviland & Co., New York, N. Y. China.

For exhibit see page 340.

Norris & Co., Chicago, Ill. Safes.

For exhibit see page 1009.

Charles Ahrenfeldt & Son, New York, N. Y. China.

For exhibit see page 340.

J. H. Bishop & Co., Wyandotte, Mich. Skins, rugs, etc.

For exhibit see page 349.

Economic Smokeless Fire Co., London, Eng.

For exhibit see page 1010.

SHOE AND LEATHER TRADES EXHIBIT. INSTALLED IN SPECIAL BUILDING.

In this special division of exhibits in the Department of Manufactures are included exhibits in group 88, class 552 (colors, blacking, etc.); group 102, class 639 (linen thread, etc.); group 103, class 688 (felt footwear, linings, etc.); group 104, class 656 (boots and shoes); group 109, class 683 (rubber boots, shoes, etc.); and all of group 111 (leather and manufactures of leather), except leather belting; also classes 445 and 446, in group 72, department of machinery, (machines for preparing and working leather and for making boots and shoes).

GROUP 88.

1. **Eclipse Cement & Blacking Co., Philadelphia.** Cements, shoe dressing, harness inks and dressings. F-4 552
2. **Miller, Frank, & Co., New York.** Harness dressings, stains and cements. F-6 552
3. **Sankey, John, Mifflinburg, Pa.** Shoe and harness dressing. F-6 552
4. **Whittemore Bros. & Co., Boston.** Harness dressings; boot and shoe blacking. F-6 552
5. **Wood, George H., Company, Boston.** Cements, inks, wax and dressings. F-6 552

GROUP 102.

6. **Barbour Bros. Company, Paterson, N. J.** Sewing threads, threads for boots, shoes and saddlers use. D-4&5 639
7. **Finlayson, Bonsfield & Co., Grafton, Mass.** Thread for shoes and leather. D-4&5 639

GROUP 103.

8. **Dolge, Alfred, Dolgeville, N. Y.** Felt goods; boots, shoes and slippers made of same. F-5 648
9. **Grand Rapid Felt Boot Company, Grand Rapids, Mich.** Felt and knit boots. E-1 648

GROUP 104.

10. **Aborn, C. H., Lynn, Mass.** Boots. F-4 656
11. **American Porpoise Lace Company, Newark, N. J.** Shoe laces. F-5 656
12. **Amesbury Shoe Company, Amesbury, Mass.** Shoes and slippers. E-1 656
13. **Ash, Wm. T., Lynn, Mass.** Shoes and slippers. F-4 656
14. **Banister, James A., Company, Newark, N. J.** Boots, shoes and slippers. D-2 656
15. **Bartlett, John, & Co., Lynn, Mass.** Boots and shoes. F-4 656
16. **Batcheller, E. & A., Co., Boston.** Boots and shoes. D-2 656
17. **Blake, Herold F., Haverhill, Mass.** Shoe tips. E-5 656
18. **Breed, Francis W., Lynn, Mass.** Boots and shoes. F-4 656

19. **Bridgeport Elastic Web Company, Bridgeport, Conn.** Elastic goring and webbing. F-5 656
For exhibit see page 219.
20. **Burt, Edwin C., & Co., New York.** Boots, shoes and slippers. E-1 656
21. **Charlie & Curtiss, New York.** Shoes, gaiters and boots. E-1 656
22. **Consolidated Adjustable Shoe Company, Lynn, Mass.** Shoes. F-4 656
23. **Copeland & Ryder Co., Jefferson, Wis.** Shoes. E-1 656
24. **Davis, George C., Lynn, Mass.** Boots and shoes. F-4 656
25. **Dean, Chase & Co., Boston.** Shoe goring. F-5 656
26. **Fargo, C. H., & Co., Chicago.** Boots and shoes. D-2 656
27. **Faunce & Spinney, Lynn, Mass.** Boots and shoes. F-4 656
28. **Florsheim & Co., Chicago.** Shoes. D-1 656
29. **Ford, C. P., & Co., Rochester, N. Y.** Welts, turns and shoes. F-2 656
30. **Fox, Charles K., Haverhill, Mass.** Shoes and slippers. E-5 656
31. **Fuller, George, & Co., Lynn, Mass.** Welts, turns, boots and shoes. F-4 656
32. **Gardner, John C., Brooklyn, N. Y.** Shoes and slippers. F-1 656
33. **Goodrich, Hazen B., Haverhill, Mass.** Boots, shoes and slippers. E-5 656
34. **Greenman, Chas. E., Haverhill, Mass.** Soles and leather. E-5 656
35. **Grover's Sons, J. J., Lynn, Mass.** Shoes. F-4 656
36. **Hall, S. W., Chicago.** Over gaiters and leggings. F-5 656
For exhibit see page 351.
37. **Hanan & Son, New York.** Boots and shoes. D-2 656
38. **Harney Bros., Lynn, Mass.** Boots and shoes. F-4 656
39. **Harwood, Charles E., Company, Lynn, Mass.** Sole tops and counters. F-4 656
40. **Henderson, C. M., & Co., Chicago.** Boots and shoes. F-3 656
41. **Herbert & Rapp Co., Boston.** Shoe goring. F-5 656
42. **Herrick, G. W., & Co., Lynn, Mass.** Boots and shoes. F-4 656

UNITED STATES.

43. Hilliard, R. E., & Taylor, Lynn, Mass. Cut soles. E-5 656
44. Hoag & Heath, Lynn, Mass. Boots and shoes. F-4 656
45. Hoople, Wm. Howard, New York. Strip welting. F-5 697
46. Hutchinson, F. E., Haverhill, Mass. Shoes and slippers. E-5 656
47. Laird, Schober & Mitchell, Philadelphia. Boots and slippers. D-2 656
48. Lattemann, J. J., Shoe Manufacturing Company, New York. Boots, ties and slippers. F-2 656
49. Leonard, Atkinson Company, Chicago. Shoes. F-2 656
50. McNulty, P. F., San Francisco, Cal. Boots, shoes and gaiters. F-1 656
51. Morse Bros. & Co., Haverhill, Mass. Shoes and slippers. F-4 656
52. Mousek, N. J., Chicago. Hand-made shoes. E-1 656
53. Mundell, John, & Co., Philadelphia. Shoes. D-2 656
54. Murphy Bros., Lynn, Mass. Boots and shoes. F-4 656
55. New York Shoe Manufacturing Company, Lynn, Mass. Shoes. F-4 656
56. Oblinger, Benjamin F., Philadelphia. Boots and slippers. E-2 656
57. Ordway, Alfred A., Haverhill, Mass. Boots, shoes and slippers. E-5 656
58. Phelps, Dodge & Palmer Co., Chicago. Boots and shoes. E-4 656
59. Pingree & Smith, Detroit, Mich. Shoes. E-2 656
60. Plant, Thomas G., Lynn, Mass. Shoes. F-4 656
61. Price & Wolff, Chicago. Slippers and low shoes. D-1 656
62. Renton, John B., Lynn, Mass. Heels and lifts. F-4 656
63. Rice & Hutchins, Boston. Boots and shoes. E-2 656
64. Rumsey Bros., Lynn, Mass. Boots and shoes. F-4 656
65. Schillaber & Co., Lynn, Mass. Boots and shoes. F-4 656
66. Selz, Schwab & Co., Chicago. Boots and shoes. E-2 656
67. Scroggy, J. E. Manufacturing Company, Frankfort, Ind. Overgaiters, boots and shoes. F-5 656
68. Smith, A. F., Lynn, Mass. Boots and shoes. F-4 656
69. Smith, R. C., & Sons, Co., Chicago. Shoes. D-1 656
70. Stevens, Marshall G., Philadelphia. Insoles. F-5 656
71. St. John Manufacturing Company, Jersey City, N. J. Shoes and slippers. E-1 656
72. Sutherland, D. A., Lynn, Mass. Boots, ties and slippers. F-4 656
73. Swain, J. F., & Co., Lynn, Mass. Boots and shoes. F-4 656
74. Tilt, J. E. Shoe Company, Chicago. Boots and shoes. F-2 656
75. Turner, J. S. Company, Rockland, Mass. Shoes. E-2 656
76. Webert, Chas. L., St. Louis, Mo. Boots and shoes. E-1 656
77. Welch & Landregan, Lynn, Mass. Boots and shoes. F-4 656
78. Wells, M. D., & Co., Chicago. Boots and shoes. D-4 656
79. Wiley, Wm. H., Hartford, Conn. Leggings, overgaiters, soles, etc. F-5 656
80. Williams, Clark & Co., Lynn, Mass. Boots and shoes. F-4 656
81. Wright & Richards, Rockland, Mass. Shoes. E-1 656
82. Woodman & Howes, Haverhill, Mass. Shoes and slippers. E-5 656

GROUP 109.

83. American Rubber Company, Boston. Mackintoshes, rubber and oil clothing, rubber boots and shoes. C-4&5 683
84. Boston Rubber Shoe Company, Boston. Rubber boots and shoes; curios from South America. F-5 683
85. Goodyear Metallic Rubber Company, Naugatuck, Conn. Rubber footwear. C-Part of 4-5 683
86. Woonsocket Rubber Company, Providence, R. I. Footwear. D-4&5 683

GROUP 111.

87. American Oak Leather Company, Cincinnati. Belting, soles, insoles and counters. C-4 697
88. Avery Leather Goods Company, Denver, Col. Leather clothing and novelties. E-1 697
89. Barnet, J. S., & Bro., New York. Finished leather. C-4 697
90. Burk Bros., Philadelphia. Glazed kid, calf and pebble goat; shoes from same. E-1 697
91. Callery, Jas., & Co., Pittsburg, Pa. Harness leather. A-3 697
92. Costello, P. C., & Co., New York. Sole leather. C-1 697
93. Delvin, Thomas, Arcata, Cal. Parts of harness. A-2 697
94. Eisendrath, B. D., & Co., Racine, Wis. Shoe leather. C-4 697
95. Eisendrath, W. N., & Co., Chicago. Shoe and glove leather. C-4&5 697
96. England & Bryan, Philadelphia. Leather. A-1 679
97. Fayerweather & Ladew, New York. Belting and sole leather. C-1 697
98. Foerderer, Robert H., Philadelphia. Glazed kid and shoes of same. B-2 699
99. Freiberg-Wolfstein Oak Tanning Company, Cincinnati. Harness leather. A-1 697
100. Groetzinger, A., & Son, Allegheny City, Pa. Sole leather and belting. B-1 697
101. Groetzinger, J., & Co., Allegheny City, Pa. Harness leather. B-1 697
102. Groezinger's, G., Sons, Lancaster, Pa. Harness leather. A-5 697
103. Halsey, Sam, & Son, Newark, N. J. Patent, enameled and fancy leather. A-5 699
104. Hauselt, Charles, New York. a Calfskins. A-6 697
b Glazed kid. 699
105. Hollinger, Amos, Lancaster, Pa. Harness leather. B-1 697
106. Horton, Gildersleeve & Co., Johnson City, Tenn. Sole leather. C-1 697

DEPARTMENT H.—MANUFACTURES.

- | | |
|--|---|
| 107. Horton & Gurd, Rees Tannery, W. Va. Butts and sole leather. B-1 697 | 123. Smith, Hugh, Newark, N. J. a Patent and enameled leather. A-6 699 |
| 108. Howard, J. W. & A. P., & Co., Corry, Pa. Sole leather. B-1 697 | <i>b</i> Upholstery leather. 705 |
| 109. Howell, T. C., & Co., Newark, N. J. Patent and enameled leather. A-4 699 | 124. Smith's, Lyman, Sons Company, Norwood, Mass. a Sheep and lamb skins. 697 |
| 110. Kaufherr & Co., Newark, N. J. a Alligator leather. 700 | <i>b</i> Sheepskin bindings and linings. 703 |
| <i>b</i> Lizard and snake skin and fancy leather. 702 | 125. Swift and Company, Chicago. Hides and skins. A-3 696 |
| 111. Kistler, Lesh & Co., Boston. Sole leather. C-1 697 | 126. Trostel, Albert, & Sons, Milwaukee, Wis. a Tanned leathers. A-5 697 |
| 112. Lambean Leather Company, Chicago. a Leather. C-4 697 | <i>b</i> Kangaroo calf. 700 |
| <i>b</i> Kangaroo calf, etc. 700 | <i>c</i> Russia leather. 701 |
| 113. Leas & McVitty, Philadelphia. Belting butts and soles. B-1 697 | 127. Walker, Oakley Company, Chicago. Calfskin leather. C-4 697 |
| 114. Levor, Gustav, Gloversville, N. Y. Patent shoe kid. A-4 699 | 128. Weed, James B., & Co., Binghamton, N. Y. Finished leather. C-4 697 |
| 115. Marshall, James D., Chicago. Sole leather and finished hides. C-1 697 | 129. Weil, J., & Bros., Chicago. Sheep skins and side leather. A-4 697 |
| 116. McConnell, J. J., Philadelphia. Glazed kid. A-4 699 | 130. Wilder & Co., Chicago. a Horse hide. A-6 696 |
| 117. Moffat, David, & Co., New York. Harness leathers. B-2 697 | <i>b</i> Sole leathers. 697 |
| 118. Mooney, W. W., & Sons, Columbus, Ind. Harness leather. B-5 697 | 131. Woodside Patent Calf Manufacturing Company, Newark, N. J. Patent and enameled leather. A-4 699 |
| 119. Pfister & Vogel Leather Company, Milwaukee, Wis. Leather. C-2 697 | 132. Zahn, William, Leather Company, Newark, N. J. Glazed leather. A-4 699 |
| 120. Patrick & Co., Newark, N. J. Patent and enameled leather. A-6 699 | 133. Zohrlant, Herman, Leather Company, Milwaukee, Wis. a Boot and plow shoe grains. B-5 697 |
| 121. Scarinci, Benjamino, Philadelphia. Samples of leather and calfskin. F-1 697 | <i>b</i> Kangaroo calf leather. 700 |
| 122. Shaw Leather Company, Boston. Upper leather and shoes of same. A-5 697 | <i>c</i> Qil leather. 702 |

AUSTRIA.

GROUP 87.

1. Adamek, Anton, Vienna. Soaps and perfumes. 549
2. Chemische Producten Fabrik, Hlrastnigg (Stiria). Red oxide of iron. 545
3. Costella Alois, Goesling, near Graz (Stiria). Restitutive fluid. 549
4. Petrik, Bernhard & Co., Bodenbach (Bohemia). "Antikesselstein" compound. 545
5. Unterweger Brüder, Thal Assling. Conifere oil (with Alpine photographs). 549

GROUP 88.

6. Hardtmuth, L., & Co., Budweis (Bohemia). Artists' materials. 555

GROUP 89.

7. Braeunert, Hermann, Vienna. Ornamental paper. 562
8. Leykam Josefthaler Actiengesellschaft für Papier und Druckindustrie, Gratwein, near Graz (Stiria). Paper and paper pulp. 556
9. Neusiedler Actiengesellschaft fuer Papierfabrication, Vienna. Paper. 556
10. Piette, P., Freiheit (Bohemia). Writing paper. 560
11. Pollak, D. R. & Soehne, Vienna. Paper goods. 557
12. Schloegelmuehl, Actiengesellschaft der k. k. priv. Papierfabrik, Vienna. Paper. 556
13. Schmaß, Jak. & Co., Vienna. Cigarette paper. 558
14. Schuetz, Christian, Vienna.
a Cigarette paper. 558
b Colored paper. 562

GROUP 90.

15. Chivalla & Sohn, Vienna.
a Portieres. 568
b Stove-screens. 572
16. Erste Oesterr. Thueren und Fussbodenfabriks-Gesellschaft, Vienna. Artistic furniture. 572
17. Goldschmidt, Emil, Prague. Wooden shades. 570
18. Jaeger & Thiel, Vienna. Fancy furniture of bamboo. 567
19. Jaray, Sandor, Vienna. Ebony articles. 572
20. Kohn, Jakob & Josef, Vienna. Furniture of bent wood. 567
21. Menkes, Ephraim, Elbeteinitz (Bohemia). Model of bureau. 567
22. Mueller, Isidor, Vienna. Bamboo furniture. 567
23. Scheidl Alois, Vienna. Furniture. 657
24. Schmitt, Ludwig, Vienna. Furniture. 567
25. Thonet, Gebrueder, Vienna. Furniture of bent wood. 567

GROUP 91.

26. Altziebler, Michael, Lilli (Stiria.) Terra cotta products. 574
27. Bawo & Dotter, Fischern near Carlsbad. Porcelain articles. 577

28. Bosck, Carl F. & Co., Haida (Bohemia). Porcelain articles. 577
29. Conrad C., Charlottentmette near Salzburg. Terra cotta goods. 574
30. Eichler, Ed., Dux.
a Terra cotta goods. 574
b Faience. 576
31. Fritzsche & Thien, Prague. Porcelain tobacco pipes and flagons. 577
32. Goldscheider, Friedrich M., Vienna. Terra cotta goods. 574
33. Groeschel & Spethmann, Teplitz-Turn (Bohemia). Porcelain. 577
34. Lampl, W., Bohm (Leijra). Floor of of terrazzo mosaics. 580
35. Lazarus & Rosenfeld, Steinschoenau (Bohemia). Porcelain ware. 577
36. Mazel, Josef, Neustadt near Friedland. Porcelain ware. 577
37. Miller, Gustav, Bodenbach. Flowers of porcelain. 577
38. Neuhauser, Albert, Wilten. Mosaics. With Alpine photographs. 580
39. Otto, B., Vienna. Terra cotta ware. 572
40. Richter, Gustav H., Warnsdorf (Bohemia). Porcelain ware. 577
41. Riessner, Stellmacher & Kessel, Teplitz-Turn (Bohemia). Porcelain goods. 577
42. Victoria, Porzellan, Fabrik Althrolau near Carlsbad. Bohemia Porcelain goods. 577
43. Stellmacher, Alfred, Turn-Teplitz (Bohemia).
a Faience ware. 576
b Porcelain goods. 577
44. Urbach, Brueder, Teplitz (Bohemia).
a Terra cotta goods. 574
b Majolica. 575
c Faience. 576
45. Wagner, Anna, Emailatelier, Vienna. Enameled ware. 576
46. Wahliss, Ernest, Vienna.
a Fine art pottery. 575
b Perforated faience. 576
c Specialties in Vienna Porcelain. 577
47. Wiener, Email Werk, Vienna. Enameled ware. 576

GROUP 92.

48. Stuflesser, Ferdinand, St. Ulrich, Groeden. Sculptures. With Alpine photographs. 881

GROUP 93.

49. Brozovic, Franz, Vienna. Bronze dish. 585
50. Kalmar, J. (formerly Ludwig Boehm), Vienna. Bronze goods. 585
51. Kratochvil, Lorenz, Vienna. Fancy bronze goods. 585
52. Krauliz, Adolf, Vienna. Fancy bronze goods. 585
53. Lux, C. W., Weve, Vienna. Bronze goods. 585
54. Milde, Albert & Co., Vienna. Art metal work. 585
55. Nehr, Alexander, Vienna. Art metal work. 585

DEPARTMENT H.—MANUFACTURES.

56. Neufeld, Leopold, Vienna. (Collective exhibit of the Turners of Vienna.) Goods of bronze and brass. 585
 57. Schwarz, Anton, Vienna. Art metal work. 585
 58. Stiassny, Victor, Vienna. Bronze goods. 585
 59. Waschmann, Carl, Vienna. Chiseled bronze and silver goods. 585
 60. Wilhelm Ludwig, Vienna. Art metal work. 585

GROUP 94.

61. Bougnoy'sche Graf Carl, Glasfabrik Schwarzthal, Schwarzthal (Bohemia). Fancy glassware. 593
 62. Goldberg, Karl, Haida (Bohemia). Decorated glass goods. 593
 63. Harrachsche, Erlaucht Graf, Glasfabriken, Neuwelt (Bohemia). Fancy glassware. 593
 64. Heyenbarth August's Erben, Haida (Bohemia). Fancy glassware. 593
 65. Huebner, Ferdinand, Vienna. Glassware. 593
 66. Inwald, Josef, Vienna. Glassware. 593
 67. Lazarus & Rosenfeld, Steinschoenau (Bohemia). Glassware. 593
 68. Lobmeyr, J. & L., Vienna. Fancy. Fancy glassware. 593
 69. Loetz Johann Wittwe, Klostermuhle (Bohemia). Fancy glassware. 593
 70. Moser, Ludwig, Karlsbad. Fancy glassware. 593
 71. Mueller, Hermann, Ulrichsthal Meistersdorf (Bohemia). Glassware. 591
 72. Rasch, Clemens & Sohn, Ulrichsthal (Bohemia). Fancy glassware. 593
 73. Schimmel & Kraemer, Steinschonau (Bohemia). Fancy glassware. 593
 74. Taussig, M., Gablonz near Reichenberg. Fancy glassware. 593
 75. Tschernaich & Co., Haida (Bohemia). Fancy glassware. 593
 76. Ulrich, Heinrich, Wilhelmsthal near Iglau. Fancy glassware. 593
 77. Wagner, Franz, Ulrichsthal Meistersdorf (Bohemia). Fancy glassware. 593
 78. Zeckert, Johann & Sohn, Meistersdorf (Bohemia). Fancy glassware. 793

GROUP 96.

79. Albert, Alexander, Vienna. Ebony work. 598
 80. Bamberger, Carl, Vienna. Ebony work. 598
 81. Collective exhibit of the following Turners of Vienna: Amber and meerschau work: Anton Budel, Franz Danes, Franz Irges, Ignaz Kunesch, Johann Lederer, Adolf Lichtblau, Johann Ossana, Brueder Spiller. Pearl and ivory: Rudolf Furtner, Victor I. Wachtel. Smoking articles: Georg Berouschek, Josef Frankenstein, Ludwig Pressler, Amon Reitter, Franz Siroucek, Thomas Strait. Wood: Mich, Bing & Sohn, Rudolf Breyer, Edler & Vincenz, M. Goldfarl, Franz Hies & Sohne, H. Kemperling, Karl Kunisch, Leo Langstein, Johann Ledwina, Karl Mueller, Karl Pawlick. Metal: Josef Beran, Josef Homolka, Johann Payer, Johann Perstinger, Anton Schall, Julius Zipper.

82. Kloepper, Johann, Vienna. Carvings in ebony. 598
 83. Krejcik, Josef, Prague. Ecclesiastical wood carvings. 598
 84. Loewy & Fuchs, Vienna. Wood carvings. 598
 85. Pfeiffer, Carl, Vienna. Carved wood. 598
 86. Robitschek, F., Karbitz, Bohemia. Rosaries, crucifixes, etc. 598
 87. Scheiber & Klein, Vienna. Carvings in ebony. 598

GROUP 97.

88. Boehm, Herman, Vienna. Gold and silverware. 604
 89. Frank Brueder, Vienna. Gold and silverware. 604
 90. Gallus & Wolf, Prague. Gold and silverware for the table. 604
 91. Heller, Baldwin, Sohne, Teplitz, Bohemia. Metal ware. 608
 92. Jira, Franz, Prague. Goldware. 604
 93. Langer, Emil Rudolph, Landskrod, Moravia. Gold and silverware. 607
 94. Lustig, Karl L., Vienna. Gold and silverware. 604
 95. Peterka, Johann, Vienna. Metal goods. 608
 96. Pick, Fleischner, Vienna. Cane heads. 607
 97. Porzer, Thomas, Vienna. Cane heads of gold and silver. 607
 98. Robesch, Johann, Vienna. Gold and silverware. 604
 99. Scheid, G. A., Vienna. Gold and silverware. 604
 100. Stern, Heinrich, Vienna. Metal goods. 608
 101. Truka, Gebrueder, Prague. Metal goods. 608
 102. Unger, Franz, Vienna. Fancy metal goods. 608
 103. Zander, Alfred, Vienna. Tableware. 605

GROUP 98.

104. Fuxa, Gebrueder, Kutteneberg (Bohemia). Jewelry. 612
 105. Gerlitzky R., Prague. Garnet articles. 615
 106. Goldschmidt, Michael, Sohne, k. k., Hoflieferanten, Vienna. Garnet articles. 615
 107. Heller, Baldwin, Sohne, Teplitz (Bohemia). Jewelry. 612
 108. Jeteles, Jakob H. John, Gablonz (Bohemia).
 a Jewelry. 612
 b Pearls. 615
 109. Jira, Franz, Prague. Garnet goods. 615
 110. Kaminski, D. Prague. Garnet goods. 615
 111. Kersch, M., Vienna. Garnet goods. 615
 112. Kirchner, Marie, Gorz (Knestenland.) Jewelry. 612
 113. Kretsch, Jacques, Vienna. Jewelry. 612
 114. Paxreiner, Karl, Vienna. Jewelry. 612
 115. Roessler J., Gablonz (Bohemia). Jewelry. 612

AUSTRIA.

116. Sailer, Benedict, Vienna. Goods of tortoise-shell and horn. 614
 117. Schier, Franz, Gablounz, near Reichenberg. Jewelry. 612
 118. Schlechta, Franz, Juvnau (Bohemia). Garnet goods. 615
 119. Steiner & Kolliner, Prague. Garnet goods. 615
 120. Tresnak, Johann, Vienna. Garnet goods. 615
 121. Turiet & Bardach, Vienna. Jewelry. 612
 122. Weigend & Pueschner, Tyssa, near Bodenbach (Bohemia). Jewelry. 612
 123. Wuensch, Adolf E., Triest. Jewelry. 612

GROUP 99.

124. Fuxa Gebrueder, Kutteneberg (Bohemia). Parts of watches. 618

GROUP 100.

125. Hueckls J. Soehne, Neutitschein (Moravia). Plain and velour cloth. 630
 126. Leon, Julius, Vienna. Portrait of His Majesty, the Emperor of Austria, woven in silk. 629
 127. Neumann, David, Sohn, Zwittau (Bohemia). Silk goods and velvets. 630

GROUP 102.

128. Garber, Johann & Sohn, Vienna. Cotton goods. 638
 129. Helfert, Karl, Freudenthal (Silesia).
 a Cotton goods. 638
 b Linen and damask goods. 639
 130. Plischke, J., & Soehne, Freudenthal.
 a Cotton goods. 638
 b Linen goods. 639
 131. Marburg, G., Freudenthal (Silesia).
 a Cotton goods. 638
 b Linen goods. 639
 132. Siegl, Karl, Sen., Maehr Schoenberg. Linen goods. 639

GROUP 103.

133. Auspritz L. Enkel, Brünn. Woolen goods. 641
 134. Baur & Soehne, Innsbruck. "Loden" cloths (with Alpine photographs). 641
 135. Kurz, Franz, Jügerndorf (Silesia). Woolen goods. 641
 136. Latzko, Heinrich, Brünn. Woolen goods. 641
 137. Maier, Jos. J., & Co., Vienna. Woolen goods. 641
 138. Oesterreicher, Josef St., Prague. Small wares. 647
 139. Quttner, Jakob & Soehne, Troppan. Woolen goods. 641
 140. Redlich, Friedrich, Brünn. Woolen goods. 641
 141. Salamon, Jos. J., Reichenberg. Woolen goods. 641
 142. Samek Bruder, Brünn. Woolen goods. 641
 143. Schwarz, Philipp, Vienna. Small wares for furniture. 647
 144. Zipser, Eduard, & Sohn. Colored woolen cloths. 641

GROUP 104.

145. Dewideles, Simon, Prague. Gloves. 657
 146. Fuerth, Wolf & Co., Strakowitz (Bohemia). Turkish fez. 654
 147. Gibian, M., Vienna. Gloves. 657
 148. Habig, P., & Co., k. k. Hofmtmacher, Vienna. Felt and silk hats. 654
 149. Ha, S. Heinr., Vienna. Felt and silk hats. 654
 150. Joss, M., & Lowenstein, Prague. Laundry goods. 658
 151. Lowenstein, Adolf R., Vienna. Boots and shoes. 656
 152. Maison, Olga, Edelmann, Vienna. Costumes. 653
 153. Stiassny, Franz & Max, Hoflieferanten, Vienna. Gloves. 657
 154. Strakosch, B., Vienna. Boots and shoes. 656
 155. Suppancic, V., Vienna.
 a Shirts. 658
 b Corsets. 653
 156. Weiss, Rudolf, Vienna. Gloves. 657
 157. Zucker, Mathias, & Co., Vienna. Turkish fez. 654

GROUP 106.

158. Adler & Langer, Buanenburg (Bohemia). Metal buttons. 668
 159. Bruck, F., Teplitz (Bohemia). Buttons of stone-nut. 668
 160. Heller Baldwin Söhne, Teplitz (Bohemia). Buttons. 668
 161. Jeteles, Jakob, H. Sohn, Gablonz (Bohemia). Fancy buttons and hat trimmings. 668
 162. Mayer, Sigmund, Vienna. Fans. 667
 163. Paechter, Adolf, Bodenbach. Buttons. 668
 164. Pick & Fleischner, Vienna. Metal buttons. 668
 165. Popp, Hermann, Vienna. Pearl buttons. 668
 166. Storcks Karl Nachfolger, Vienna. Buttons. 668
 167. Stupka, Mariette, Vienna. (Collective exhibit of the turners of Vienna.) Fancy buttons. 668
 168. Tragsail, Heinrich, Vienna. Fans. 667
 169. Traub & Strauss, Vienna.
 a Fans. 667
 b Trimmings. 668
 170. Weigend & Pueschner, Tyssa, near Bodenbach (Bohemia). Metal buttons. 668
 171. Weisz, Samuel, Vienna. Fans. 667

GROUP 107.

172. Mayer, Sigmund, Vienna. Combs. 675
 173. Tauber, Johann & Soehne, Vienna. Brushes. 675

GROUP 108.

174. □ Arneth, Franz, Vienna. Fancy leather goods. 680
 175. Bachinger, E., Vienna. Fancy leather goods. 680
 176. Foerster, A., Vienna. Fancy leather goods. 680
 177. Gussmann, Bernhard, Vienna. Fancy leather goods. 680

DEPARTMENT H.—MANUFACTURES.

178. Heller, Karl, Vienna. Fancy leather goods. 680
179. Huebner, Ferdinand, Vienna. Fancy leather goods. 680
180. Lindner, Oswald, Vienna. Umbrellas and canes. 681
181. Mayer, Sigmund, Vienna. Fancy goods. 680
182. Walter, Georg, Vienna.
a Smokers' supplies. 680
b Canes. 681
183. Weidmann, J., k. k. Hof und Kammerlieferant. Leather fancy goods. 680
184. Willrader, Carl, Vienna. Smokers' supplies. 680
185. Wuerzel, M., & Soehne, Vienna.
a Leather fancy goods. 680
b Traveling equipments. 678

GROUP 109.

186. Trebitsch Brueder, Vienna. Rubber goods. 683

GROUP 110.

187. Grmela, Franz, Unterdorf (Moravia). Fancy case of wood. 695

GROUP 111.

188. Hofmeier, Julius. Leather imitation for wall decoration. 705
189. Poeschel's, Josef, Soehne, Vienna. Machine straps. 704

GROUP 113.

190. Skoda, E., Pilsen (Bohemia). Mitrail-leuses. 715

GROUP 115.

191. Hoschek Brueder, Prague. Steam cooking apparatus. 727
192. Reiss, August, Nachfolger, Vienna. Coffee and tea cooking apparatus. 730

GROUP 116.

193. Denk, Josef, Vienna. Tin-plate goods. 733
194. Winkler, Alois & Co., Vienna. Tin-plate signs. 734

GROUP 119.

195. Egydyer Eisen und Stahl Industrie Gesellschaft, Vienna. Files of crucible steel. 750
196. Skoda, E., Pilsen (Bohemia). Steel goods. 749

GROUP 120.

197. Dumont, Paul, Vienna. Bathing appliances and attachments. 753
198. Guttman, L., Vienna. Closets. 754
199. Nadhera, A., Vienna. Closets. 754

GROUP 121.

200. Hoffmann Josef, Reichenberg. Billiard cues.
201. Kowarz, Johann, Vienna. Pearl goods.
202. Krehan, Karl, Vienna. Pearl goods.
203. Zabokrtsky, Franz, Prague. Billiard cues.

BELGIUM.

GROUP 87.

1. Burelle, P., Brussels. Chemical products. 546
2. Debin, Jules, Charleroi.
a Pharmaceutical preparations. 547
b Bandages. 548
3. De Marbaix, Aug., Antwerp. Perfumery and soap. 549
4. Demoulin-Fastré, Jacques, Liège. Cosmetics and pomades. 549
5. Jonas, Aime, Brussels. Essential oils, essences. 549
6. Mampaey, Pierre, Antwerp. Elixir. 547
7. Poncelet, Em., Verviers.
a Lozenges; medicinal chocolates. 547
b Bandages. 548

GROUP 88.

8. Botelberge, Gustave, & Co., Melle-lez-Gand. Ultramarine. 552
9. Meyer, Max, Brussels. Ink. 552
10. Mommen, F., Brussels. Artists' supplies. 555
11. Tempels, Daniel, Brussels. Artists' colors. 555

GROUP 89.

12. Dars & Co., Merbes-le-Chateau. Bituminated building-board for roofs. 557

13. Dartois, J., & Co., Jupille-lez-Liege. Bituminated building-board. 557
14. De Vriendt, André, Brussels. Wrapping paper. 558
15. Meyer, Maz, Brussels.
a Paper. 560
b Pens. 561
16. Vandermynsbrugge, Victor, London. Typewriters and stenographic machines. 564

GROUP 90.

17. Baes, Henri, Brussels. Decorative panels and drawings. 570
18. Damman & Washer, Brussels. Wainscoting, inlaid floors, etc. 571
19. Mazy, L., Brussels. Decorative painting. 571
20. Petit, J. B., père, Ixelles
a Chairs. 565
b Furniture. 567
c Hangings. 568
21. Petit, Julien, Ixelles. Decorative painting. 571
22. Pierrard, Joseph, fils, Brussels. Decorative painting. 571
23. Rosel, F., Brussels.
a Furniture. 567
b Draperies. 568
24. Société Anonyme des Glaces d'Auvélais; Auvélais. Beveled mirrors. 569

BELGIUM.

25. Société Anonyme des Glaces de Charleroi, Roux. Beveled mirrors. 569
 26. Tasson, Joseph, Brussels. Decorative panels. 570
 27. Van Drooghenbroeck, Justinien, Brussels. Designs for paintings, coats of arms, escutcheons, etc. 570
 28. Verstraete, Arthur, Gand.
 a Easy chairs. 565
 b Couches. 567

GROUP 91.

29. Boch, frères, La Louvière.
 a Porcelain table ware. 577
 b Tiles. 578
 c Mural decorations. 579
 30. Escoyez, Louis, Tertre. Ceramic tiles. 578
 31. Fieve, G., & Co., Gand. Tiles. 578
 32. Wilmart, E., & Co., Basecles. Marble tile. 578

GROUP 92.

33. Denis, Victor, Brussels. Marble mantels. 583
 34. Evrard-Higot, L., Annevoie. Marble mantel. 583
 35. Evrard, Léonce, Brussels. Marble mantels and objects of art. 583

GROUP 93.

36. Compagnie des Bronzes, Brussels. Bronze statues, vases, groups, etc. 585
 37. Vandonck, Louis, Brussels. Art bronzes. 585

GROUP 94.

38. Baudoux, Eugène, Jumet. Window glass. 590
 39. Bauthière, Jules, Montigny-sur-Sambre. Window glass. 590
 40. Desgain, frères, Lodelinsart. Window glass. 590
 41. Lambert & Co., Jumet. Window glass. 590
 42. Mondron, Leon, Lodelinsart.
 a Window glass.
 b Cut glass, engraved and etched. 2
 c Fancy glassware. 593
 43. Pierson, J., fils, Brussels. Engraved glass. 592
 44. Société anonyme des Verreries de la Roue, Lodelinsart. Window glass. 590
 45. Société anonyme des Verreries de L'Etoile, Marchienne-au-Pont. Window glass. 590
 46. Société des Verreries de Mariemont, Haine-Saint-Pierre. Window glass. 590
 47. Société anonyme des Verreries de Jumet, Jumet. Window glass. 590

GROUP 95.

48. De Taffe, Adolphe, Brussels. Stained glass. 596
 49. Pluys, Léopold, Malines. Painted glass windows. 597
 50. Willocx, Constant, Malines. Stained glass windows. 596

GROUP 97.

51. Houy, C., Brussels. Silverware. 604

GROUP 98.

52. Brand, George, Brussels. Fancy jewelry. 612
 52a. Dufour, Auguste, Brussels. Jewelry. 612
 53. Houy, C., Brussels. Jewelry. 612
 54. Vandemaele, Emile, Brussels. Gilt jewelry. 616
 55. Van Strydonck, Léopold, Brussels. Jewelry. 616

GROUP 101.

56. Société anonyme de La Lys, Gand. Jute and tow fibres. 633

GROUP 102.

57. Baertsoen & Buysse, Gand. Linen and other fabrics. 639
 58. Defraiteur, Eugène, Verviers. Cords. 638
 59. Eloy & Co., Brussels. Cotton prints. 638
 60. Société anonyme de Florida, Gand. Cotton fabrics and thread. 638
 61. Société anonyme de La Lys, Gand. Linen thread and cord. 639
 62. Société anonyme La Dendre, Termonde. Cotton counterpanes. 638
 63. Société anonyme linière La Liève, Gand. Linen thread and cord. 639
 64. Thienpont, L., & fils, Gand. Linen tablecloths, damask, etc. 639
 65. Van den Bemden, J. B., Brussels. Candle-wick, etc. 638

GROUP 103.

66. Darimont, L. & H. & frère, Verviers. Woolen goods. 641
 67. Chatin, Joseph & Co., Ensival. Novelty goods. 641
 68. Garot, L. & J., Verviers. Woolen goods. 641
 69. Lejeune, Leon, Verviers. Carded wool; yarn. 640
 70. Lieutenant, Henri, Pepinster. Combed and carded wool; yarn. 640
 71. Petit & Follet, Verviers. Woolen goods. 641
 72. Pirenne, frères, Verviers. Woolen goods. 641
 73. Simonis, Iwan, Verviers. Woolen goods, billiard cloth, etc. 641
 74. Société anonyme Belge de Peignage et Filature de Laine La Vesdre, Verviers. Yarns, etc. 640
 75. Van Damme & Keuller, Hamme. Carpets. 649
 76. Voos, J. J., Verviers. Woolen goods. 641

GROUP 104.

77. Dutoict & Co., Brussels. Corsets. 653
 78. Fontaine, frères, Leuze. Hosiery. 657
 79. Gengoux, J. B., Brussels. Boots and shoes. 656
 80. Gillet, F., Brussels. Boots and shoes. 656
 81. Hepworth & Co., Watteren. Hosiery. 657
 82. Manufacture de feutres et chapeaux, Brussels. Hats. 654

DEPARTMENT H.—MANUFACTURES.

83. Vanbuggenhoudt, fils aîné & Co.,
Brussels. Men's ready made clothing. 652
84. Vaxelaire-Claes, Brussels. Ladies'
costumes, etc. 653

GROUP 105.

85. Block, C. & Welsch, A., Meirelbeke-
lez-Gand. Furs and skins. 660
86. Block, Edmund, Gendbrugge. Furs
and skins. 660
87. Jaubert, Edmond, Cureghsem
a Dyed furs and skins. 660
b Muffs, etc. 662
88. Société anonyme "La Fourrure,"
Alost. Furs and skins. 660

GROUP 106.

89. Campagnie des Indes, Brussels.
Laces. 644
90. Dedlercq-Clément, Iseghem. Laces,
etc. 664
91. Derooster, R., Brussels. Buttons and
military ornaments. 668
92. Goetghebuer, Alida, Brussels. Em-
broideries. 665
93. Grossé, Joseph, Bruges. Embroidery.
665
94. Houtmans, Adrien-Jean, Brasschaet.
a Laces. 664
b Embroideries. 665
95. Lavalette & Co., Brussels. Laces.
664
96. Minne-Dansaert, Mlle., Brussels.
Laces. 664
97. Pierson, Joséphine, Ixelles. Embroid-
eries, etc. 665
98. Verbist, M., Brussels.
a Laces. 664
b Embroideries. 665

GROUP 108.

99. Houtain, Emile, Brussels. Pipe bowl.
680

GROUP 109.

100. De Schamphelaer, Pol., Gand. Rubber
goods. 683

GROUP 111.

101. D'Anvers, Charles, Gand. Leather
belting, etc. 704

GROUP 112.

102. Foidart, Mathieu, Brussels. Water
meters. 711

GROUP 113.

103. Ancion, J., Liège.
a Military small arms. 714
b Sporting fire arms. 718
104. Clément, C., Liège.
a Military small arms. 714
b Sporting fire arms. 718

105. Fabrique nationale d'armes de guerre,
Herstal. Military small arms, ammuni-
tion. 714

106. Heuse-Lemoine, E., Nessonvaux.
Gun barrels. 714

107. Locht-Habran, Laurent, Jupille.
Steel gun barrels. 714

108. Nagant, E. & L., Liège. Fire arms.
718

109. Pieper, Henri, Liège.
a Military fire arms. 714
b Sporting fire arms. 718

GROUP 114.

110. Bruers, Louis, Brussels. Gas lamps.
721

111. Fraikin & Andrien, Liège. Lamps.
719

112. Schroëter-Aaerts, Malines. Brass
chandeliers. 721

GROUP 115.

113. Bertels, Jos., Antwerp. Copper fire-
place. 724

114. Fraikin & Andrien, Liège. Petro-
leum stoves. 729

115. Hepner, Brussels. Grates. 724

GROUP 116.

116. Aubry, Ad. & Fils., Gosselies.
Household utensils of enameled iron. 734

117. Thibaut, L., & Co., Viesville. Enam-
eled ware. 734

GROUP 118.

118. De Ceulener, Henri, Brussels. Horse-
shoes. 746

119. Forges de la Providence, Marchienne.
Shaped iron and steel, etc. 746

120. Mabilie, Valère, Mariemont. Iron
and steel beams, girders, columns, etc. 745

121. Schryvers, Prosper, Brussels. Artis-
tic iron work. 743

122. Seghers-Castelle, Brussels.
a Wrought iron. 743
b Fire boxes. 745

123. Sillen-Emmerechts, A., Blauw.
Wrought-iron grating. 743

124. Société anonyme des usines et fonder-
ies de zinc de la Vielle-Montagne; An-
gleur. Samples of roofing. 744

GROUP 119.

125. Focroulle, Charles, Kinkempois-An-
gleur. Jack screws. 747

126. Lukers, Guillaume & Gendarme, Se-
raing. Jack screws. 747

127. Thomas, Père & Fils, Liège. Build-
ers' hardware. 747

GROUP 121.

128. Marchal, Louis-Myacinthe, Brussels.
Fire-proof clothing.

CANADA.

GROUP 87.

1. Lyman Sons & Co., Montreal.
 - a* Pharmaceutical products. 547
 - b* Perfumery. 549

GROUP 88.

2. Canada Paint Co., Montreal.
 - a* Paints, colors. 552
 - b* Varnishes, etc. 554
3. McCaskill, Dougal & Co., Montreal. Varnishes and japans. 554

GROUP 89.

4. Barber Ellis Co., Toronto. Papeteries. 564
5. Brown Bros., Toronto.. Blank and account books. 561
6. Knott & McLaren, Hamilton, Ont. Inkstand. 564
7. Rolland Paper Co., Montreal.
 - a* Paper. 556
 - b* Cardboards. 557
8. Toronto Paper Co., Cornwall, Ont. Paper. 556
9. Walker Mining Co., Ottawa, Ont. Pencils. 564
10. Watson, John C., & Co., Montreal. Wall papers. 563

GROUP 90.

11. Anderson, C. E., London, Ont. Chairs. 565
12. Brockville Wringer Co., Brockville, Ont. Ship chairs. 565
13. Cobban Mfg. Co., Toronto.
 - a* Bamboo furniture. 567
 - b* Mantels. 570
 - c* Moldings. 571
14. Courtney, Edward, Peterboro, Ont. Picture inlaid in wood. 572
15. Noble & Davidson, Toronto. Inlaid table. 566
16. North American Bent Chair Co., Owen Sound, Ont. Bent wood chairs, veneer seats, etc. 565
17. Williams, Edward, Kentville, N. S. Center table. 565

GROUP 91.

18. Beamsville Pressed Brick Co., Beamsville, Ont. Bricks, terra cotta. 574
19. Don Valley Pressed Brick Works, Toronto. Pressed bricks, terra cotta. 574
20. Pigot & Bryan, London, Ont. Decorated china and earthenware. 576
21. Welding, W. E., Brantford, Ont. Stone and Rockingham ware. 575

GROUP 94.

22. Diamond Glass Co., New Glasgow, N. S. Glassware. 592

GROUP 95.

23. McCausland, J., & Son, Toronto. Stained glass. 596
24. Spence, J. C., & Sons, Montreal. Stained glass. 596

21

GROUP 96.

25. Kurrle, Wm., Montreal. Wood carving. 598
26. Ostler, Kasper, Hamilton, Ont. Carved wood. 598
27. Williams, Edward, Kentville, N. S. Ornamental work. 598

GROUP 97.

28. Acme Silver Co., Toronto.
 - a* Sterling silver. 605
 - b* Electro gold and silver plate. 609

GROUP 100.

29. Belding, Paul, & Co., Montreal.
 - a* Silk thread. 626
 - b* Ribbons. 631
30. Corticelli Silk Co., St. John, N. B. Spool silks. 626

GROUP 102.

31. Canadian Colored Cotton Mills Co., Montreal. Cotton fabrics. 638
32. Consumers' Cordage Co., Montreal. Twine, flour bags. 638
33. Dominion Cotton Mills Co., Montreal. Cotton fabrics. 638
34. Montreal Cotton Co., Montreal. Textile fabrics. 638

GROUP 103.

35. Auburn Woolen Co., Peterboro, Ont. Tweeds, etc. 644
36. Cascade Narrow Fabric Co., Coaticook, Que. Mohair and llama braids. 651
37. Globe Woolen Mills Co., Montreal. Meltons, tweeds, etc. 644
38. Newlands & Co., Galt, Ont. Imitation cloths. 651
39. Oxford Mfg. Co., Oxford, N. S. Tweeds. 644
40. Rosamond Woolen Co., Almonte, Ont.
 - a* Fancy worsteds. 643
 - b* Tweeds. 644
41. Toronto Carpet Co., Toronto. Ingrain carpet. 649
42. Trent Valley Woolen Mfg. Co., Cambridgeford, Ont. Woolen goods. 641
43. Yarmouth Woolen Mills, Yarmouth, N. S.
 - a* Homespun and costume cloths. 641
 - b* Tweeds. 644

GROUP 104.

44. Coaticook Knitting Co., Coaticook, Que. Underwear. 657
45. Desorineau, Z. Z., & Co., Montreal. Gloves. 657
46. Norfolk Knitting Co., Port Dover, Ont. Underwear. 657
47. Peninsula Knitting Mills, Thorold, Ont. Underwear. 657
48. Penman Mfg. Co., Paris, Ont. Underwear, hosiery, etc. 657
49. Rosebrugh, Richard M., Toronto. Cuff button and holder. 658

DEPARTMENT H.—MANUFACTURES.

50. Slater, Geo. T., & Sons, Montreal.
Boots, shoes and slippers. 656
51. Sandford, W. E., & Co., Hamilton,
Ont. Ready-made clothing. 652
52. Todhunter, Miss Jessie S., Toronto.
Knitted stockings. 657

GROUP 106.

53. Bagnell, Mrs. K., Hamilton, Ont.
Embroidery. 669
54. Barrett, Mrs. D. A., Ottawa, Ont.
Embroidery. 669
55. Bawlf, Mrs. N., Winnipeg, Man.
Darning on net. 665
56. Beard, Miss Pauline St. J., St. John,
N. B. Needlework. 669
57. Beemer, Miss M., Aylmer, Que. Lace
handkerchief. 664
58. Bergerson, Miss, Montreal. Needle-
work. 669
59. Davies, Miss L. H., Toronto. Em-
broidery. 669
60. Deadman, Mrs. A. G., Lambeth, Ont.
Embroidery. 669
61. Douglas, Miss B., St. Catherines,
N. S. Tapestry. 670
62. Duff, Mrs. J. A., Myrtle. Crochet
work. 665
63. Edwards, Edgar W., Vancouver, B. C.
Tapestry. 670
64. Girrard, Mrs., Lambeth, Ont. Needle-
work. 669
65. Gouin, Fanny M., Richmond, Que.
Embroidery. 669
66. Grant, E. Florence, St. John, N. B.
Embroidery. 665
67. Handyside, Mary B., Ottawa, Ont.
Embroidered fan. 667
68. James, Miss, Ottawa, Ont. Em-
broidery. 665
69. Johnstone, Mrs. C., Askin, Ont. Em-
broidery. 669
70. Kidd, Jessie E., Ottawa, Ont. Em-
broidery. 665
71. Lear, Mrs. Fred, Toronto. Crochet
work. 665
72. Lord, Mrs. T. Ellery, Hull, Que. Em-
broidery. 665
73. Maritime Women's Christian Temper-
ance Union, Cow Bay, N. S. Fancy
articles. 665
74. Martin, Mrs. C. H., Ottawa, Ont.
Drawn thread handkerchief. 665
75. McDonald, Mrs. F., Toronto. Needle
and crochet work. 665
76. McKenzie, Mrs. Wm., Teeswater,
Ont. Crochet work. 665
77. McLean, Sarah M., Ottawa, Ont.
Embroidery. 665
78. McMorran, Mrs. R. M., Ottawa, Ont.
Embroidery. 665
79. Montreal Society of Decorative Art,
Montreal.
a Art embroidery and needlework. 669
b Tapestry. 670
80. Morley, Miss E. W., St. John, N. B.
Tapestry. 670
81. Muir, Miss Laura, Grimsby, Ont.
Embroidery and needlework. 665
82. Munro, Belle, Ottawa, Ont. Embroid-
ery. 665
83. Nellis, Mrs. H. H., London, Ont.
a Lace. 664
b Crochet work. 665

84. Odell, Lillie E., Ottawa, Ont. Portiere
and sofa cushion. 665
85. Ontario Depository of Ladies' Work,
Toronto.
a Crochet work. 665
b Embroidery. 669
86. O'Rielly, Mrs. E., Aylmer, P. Q. Em-
broidery. 665
87. Perley, Henry M., Ottawa, Ont. Em-
broidery. 665
88. *Perley, Mrs. H., Ottawa, Ont. Em-
broidery. 665
89. Peters, Miss H., St. John, N. B.
Pulpit drape. 670
90. Powell, Miss Polly, Halifax, N. S.
Embroidery. 669
91. Quayle, Thos., Montreal. Tapestry.
670
92. Scott, Mrs. John, Hull, Que. Point
lace. 664
93. Seagram, Miss, Toronto. Crochet
work. 665
94. Skinner, Miss Constance, Prescott,
Ont. Crochet work. 665
95. Smith, Mrs. Sydney, Ottawa, Ont.
Tapestry fan. 667
96. Thistle, F. Mary, Ottawa, Ont. Tap-
estry fan. 667
97. Walker, Miss, Ilderton, Ont. Crochet
trimming. 665
98. Wills, Miss Tilly, Ottawa, Ont. Em-
broidery. 665

GROUP 108.

99. Borbridge, S. & H., Ottawa, Ont.
a Bags and satchels. 678
b Trunks. 679
100. Coles National Mfg. Co., Ottawa,
Ont. Camping outfit. 676
101. Turner, J. J. & Son, Peterboro, Ont.
Tents, awnings and hammocks. 676

GROUP 109.

102. Atkinson Bros., Toronto. Celluloid
novelties. 686

GROUP 110.

103. Atchinson Bros., Toronto. Fancy
articles. 695

GROUP 111.

104. Beardmore & Co., Toronto. Sole and
harness leather. 697
105. Williams, Edward, Kentville, N. S.
Checker boards. 693
106. Whelpy, J. A. & Co., Greenwich, N.
B. Toys. 693
107. Breithaupt Leather Co., Berlin, Ont.
Sole and harness leather. 697
108. Gourdeaux, Felix, Quebec. Leather.
697

GROUP 112.

109. Gurney Scale Co., Hamilton, Ont.
Scales. 706
110. Wilson, C., & Son, Toronto. Scales.
706

GROUP 114.

111. Atkinson Bros., Toronto. Lamp
shades. 719

GROUP 115.

112. Boyd, R. A., Belleville, Ont. Smooth-
ing iron and friller. 730
113. Gurney, E. & C., Co., Toronto.
a Hot water heaters. 726
b Ranges and stoves. 727

CANADA—CEYLON.

114. Heat Deflector Co., Montreal. Heat deflectors. 726
 115. Hubbard Portable Oven Mfg. Co. Toronto. Portable ovens. 727
 116. Jones, C. C., Elmsdale, P. E. I. Stovepipe heat check. 727
 117. McClary Mfg. Co., London, Ont.
 a Stoves and ware. 727
 b Kitchen furnishing. 730
 118. Nicholson, M., Goderich, Ont. Hot water heater. 726
 119. Strachan, D. K., Goderich, Ont. Hot water heater. 726
 120. Trouillard, A., Montreal. Hot water heaters. 726
 121. Walker Mining Co., Ottawa, Ont. Stove polish. 727

GROUP 116.

122. Harris, H., & Co., St. John, N. B. Nail plate. 733
 123. Wilson, C., & Son, Toronto. Refrigerators. 731

GROUP 117.

124. Brockville Wringer Co., Brockville, Ont. Screens. 738
 125. Greening Wire Works, Hamilton, Ont. Wire goods. 735

GROUP 118.

126. Groves, Samuel, Hamilton, Ont. Horse shoes. 746
 127. Troy, Wm., Intervales, N. S. Horse shoes. 746

GROUP 119.

128. Canada Axe and Harvest Tool Co., Montreal. Axes. 748
 129. Canadian Screw Co., Hamilton, Ont. Screws, bolts and rivets. 747
 130. Gurney Scale Co., Hamilton, Ont. Locks. 747
 131. Halifax Shovel Co., Halifax, N. S. Spades, shovels, etc. 749
 132. Shurley & Dietrich, Galt, Ont. Saws. 750
 133. Weese, D. A., Belleville, Ont. Brace. 749

GROUP 120.

134. Malcolm, W. B., Toronto, Ont. Sanitary earthenware. 755
 135. Perkins, S. C., Ottawa, Ont.
 a Bath 753
 b Sink traps. 754

GROUP 121.

136. Robitaille, S., & Co., Montreal. Indian goods.

CEYLON.

GROUP 87.

1. Ceylon Commission.
 a Kokun potu, pomatuni and medicinal drugs. 547
 b Vanilla. 549

GROUP 88.

2. Ceylon Commission.
 a Anatto; native ink. 552
 b White, terra cotta and laterite washes, antimony and dorenetel. 554

GROUP 89.

3. Ceylon Commission.
 a Bundle of olas. 556
 b Brass style. 564

GROUP 90.

4. Colombo Museum. Book rest. 572
 5. Panabokke, T. B., Kandyan shades. 568
 6. Soysa de Lady.
 a Couches, sofas, chairs. 565
 b Tables and stand. 566
 c Mounted elephants' tusks, book and show cases. 572

GROUP 91.

7. Ceylon Commission. Painted pottery. 575

GROUP 92.

8. Ceylon Commission. Biers, coffin cloth; model of pile for cremating. 584

GROUP 93.

9. Ceylon Commission. Chatty, chembu, pot and spittoon. 585
 10. Colombo Museum, Ceylon. Carved brassware. 585
 11. Government of Ceylon. Bronze from Annrad hapura. 585

GROUP 96.

12. Ceylon Commission.
 a Boxes, card case, paper cutters, work basket, writing case, mats, carved elephants, etc. 598
 b Ivory boxes and carved ivory articles. 599
 13. Colombo Museum. Boxes; ebony elephant. 598
 14. Perera, M. J. Kalutara baskets. 598

GROUP 97.

15. Ceylon Commission. Wata and mula heppuwa; betel and silver boxes. 607
 16. Colombo Museum.
 a Teapoy and spoon rack. 605
 b Silver boxes. 607

GROUP 98.

17. Ceylon Commission. Head-dresses, necklaces, combs, bangles, chains, anchors, chatelaines, rings and set of jewelry. 612
 18. Colombo Museum.
 a Hairpins, brooch, comb, chain. 612
 b Bangles, mounted with diamonds. 613

DEPARTMENT H.—MANUFACTURES.

19. Perera, M. J.
a Bangles, comb. 612
b Silver gilt necklace. 616
 20. Thomas, A. Bangles. 612

GROUP 102.

21. Colombo Museum. Tundu cloth,
 kaiyeli, kunkuma soman, Kandyan cloth. 638

GROUP 104.

22. Carolis, W. D., & Co., Shoes. 656
 23. Ceylon Commission.
a Skirts, scarf and comboy. 653
b Talipot hat. 654
c Head-dresses. 655
d Belt. 658
 24. Colombo Museum.
a Jackets and gown. 653
b Fisher s hat and cap. 654
c Head-dress. 655

GROUP 106.

25. Ceylon Commission. Artificial flowers. 666
 26. Colombo Museum. Cloth with gold
 lace work. 664
 27. Government of Ceylon. Kandyan
 betel bag. 665
 28. Perera, M. J. Teapoy cloths. 669

GROUP 110.

29. Ceylon Commission. Wooden tray,
 cups and saucers. 695
 30. Colombo Museum, Ceylon. Marionette
 show. 693
 31. Government of Ceylon. Shell bracket. 695

GROUP 111.

32. Carolis, W. D., & Co. Hides and
 skins. 696
 33. Ceylon Commission. Skins. 696

GROUP 112.

34. Ceylon Commission.
a Measure for rice. 706
b Measure for oil. 713

GROUP 113.

35. Ceylon Commission. Kandyan knives;
 swords; iron spearhead. 717
 36. Ievers, R. W.
a Gun. 714
b Swords. 717
 37. Gunaratna, E. R. Sword. 717

GROUP 119.

38. Colombo Museum. Arecanut cutter. 751
 39. Panabokke, T. B. Arecanut cutters. 751

DENMARK.

GROUP 88.

1. Prior, Adolf, Copenhagen. Shoe and
 leather blacking. Dept. A 552
 2. Rasmussen, C. M., & Spies, Copen-
 hagen.
a Blacking for saddlery. Dept. A 552
b Spirit varnish. 554

GROUP 89.

3. Levison, L., Jr., Copenhagen.
a Christmas and New Year's cards. 557
b Writing paper. 560
c Decorated paper. 562
 4. Nielsen, I., Copenhagen. Fire-proof
 paper. Dept. A 557

GROUP 90.

5. Andersen, Kr., & Co., Copenhagen.
 Joiners' work for building purposes. 571
 6. Hansen, C. B., Copenhagen. Furni-
 ture. 567
 7. Henning, Hansen, Odense, Funen.
 Oak cabinet. 567
 8. Kjar, Miss Ingrid, Copenhagen.
 Pokerwork table. 572
 9. Lassoe, Miss Augusta, Copenhagen.
 Pictures burned in wood. 572
 10. Larsen & Andersen, Copenhagen.
 Carved furniture. 567
 11. Meyer, E., Copenhagen. Lacquer
 work. 572

12. Plum, Chr. & Zald., Copenhagen.
 Dining room furniture. 567
 13. Prior, Miss Maud, Copenhagen.
 Pokerwork chair. 572
 14. Topp, I. Wilk, Copenhagen. Book
 case. 567
 15. Topp, N. Chr., Copenhagen. Book
 case. 567

GROUP 91.

16. Budde-Lund, C., Copenhagen. Terre
 cotta work. Dept. H 574
 17. Elkjær, P. M., Copenhagen. Imitated
 stone mosaic. 589
 18. Godthaab Terra Cotta Manufactory.
 Copenhagen. Terra cotta and glazed
 ware. 574
 19. Hausen, Miss E., Copenhagen.
 Ceramic work. 576
 20. Ipsens, P., & Enke, Copenhagen.
 Terra cotta work. 574
 21. Jorgensen, L. P., Copenhagen. Terra
 cotta. 574
 22. Jorgensen, Miss L., Ronnedé, Sea-
 land. Painted tableware. 576
 23. Kahier, Herman A., Nestved, Sea-
 land. Ceramic work. 576
 24. Nielsen, E., Copenhagen. Bisque and
 granite ware. 576
 25. Royal Porcelain Manufacturing Com-
 pany, Copenhagen. Porcelain 577
 26. Skovgaard, Miss S. C., Copenhagen.
 Ceramic work. 576

DENMARK.

GROUP 92.

27. Fiskbalk, P. M., Aarhus, Jutland.
Memorial plates for a grave. 581

GROUP 93.

28. Birk, Miss Dagmar, Copenhagen.
Engraved copper; brass work. 585
29. Christensen, Z., Copenhagen. En-
graved articles. 585
30. Dalhoff, H., & Son, Copenhagen. Art
metal work. 585
31. Doberck, Fr., & Son, Copenhagen.
Art metal work. 585
32. Jensen, Rasmus, Horsens, Jutland.
Enamel work. 586
33. Rasmussen, Lauritz, Copenhagen.
Bronzes. 585

GROUP 94.

34. Bendz, Miss M., Copenhagen. Painted
glass plates. 593
35. Jacobsen, E. P., Copenhagen. Glass
ceilings. 589

GROUP 95.

36. Duvier, Aug., Copenhagen. Stained
glass windows. 596
37. Gotke, E. J., Copenhagen. Stained
glass and glass paintings. 596

GROUP 96.

38. Berthelsen, Miss Inger M., Copen-
hagen. Wood carvings. 598
39. Crone, Miss Ellen, Copenhagen.
Carved wood. 598
40. Dallerup, Baroness U., Copenhagen.
Wood carvings. 598
41. Ernst, Soren, Copenhagen. Carved
screen with painting. 598
42. Ingemann-Olsen, A., Copenhagen.
Wood carving. 598
43. Müller, G. Y. J., Copenhagen. Wood
carving. 598
44. Thomsen, Miss Elizabeth, Copenha-
gen. Wood carvings. 598
45. Withusen, Miss Austa, Copenhagen.
Wood carvings. 598
46. Wood Workers' Guild of Randers.
Rander, Jutland. Fancy articles. 598

GROUP 97.

47. Bloch, Fr., Copenhagen. Electro
plated art metal work. Dept. H 611
48. Christensen, Z., Copenhagen. Silver-
ware. 604
49. Hertz, Peter, Copenhagen. Gold and
silverware. 604
50. Jensen, Rasmus, Horsens, Jutland.
Gold ornaments. 604
51. Michelsen, A., Copenhagen. Gold and
silverware. 604
52. Nordemann, M., Copenhagen. Silver-
ware. 604

GROUP 98.

53. Christensen, Z., Copenhagen. Jew-
elry. 612
54. Hertz, B., Copenhagen. Gold orna-
ments. 612
55. Hertz, Peter, Copenhagen. Jewelry.
612
56. Michelson, A., Copenhagen. Jewelry.
612

GROUP 99.

57. Larsen, Bertram, Copenhagen. Tower
clock. 621

GROUP 101.

58. Brynjulfson, Miss N., Copenhagen.
Painted mat. 636

GROUP 104.

59. Henriksen, H. P., Copenhagen. Glove
sewing machine. 659
60. Larsen, H. K., Esbjerg, Jutland.
Wooden shoes. Dept. A 656
61. Petersen, P. T., Randers, Jutland.
Wooden shoes. Dept. A 656
62. Trautner, M., & Son, Soro, Sealand.
Wooden shoes. Dept. A 656
63. Waldemar, Hansen, Copenhagen.
Gloves. 657

GROUP 105.

64. Broe, Mrs. W., Copenhagen. Feather
quilt. 660
65. Nathan, Marcus M., Copenhagen.
Eiderdown. 660
66. Trolle, C. A., Copenhagen.
a Furs and skins. 660
b Fur clothing. 662

GROUP 106.

67. Bojesen, Miss Jutta, Copenhagen.
Laces. 664
68. Brandt, Mrs. Marie, Copenhagen.
Art embroidery. 669
69. Broberg, Miss Bodil, Copenhagen.
Lace insertions. 664
70. Czarnewski, Miss M. Sasse, Copen-
hagen. Art embroidery. 669
71. Dallerup, Baroness U., Copenhagen.
Woven articles, etc. 670
72. Dyrhauge, Mrs. Th., Copenhagen.
Curtain trimmings. 668
73. Fenger, Miss A. M. F., Copenhagen.
Art embroidery. 669
74. Fischer, Miss Emma, Copenhagen.
Woven articles. 670
75. Harder, Miss Edle, Copenhagen. Art
embroidery. 669
76. Hausen, Mrs. Ida, Copenhagen. Art
embroidery. 669
77. Jansen, Miss Marie, Copenhagen.
Artificial flowers. 666
78. Jensen, Mrs. J., Copenhagen. Lace
bed-cover. 664
79. Koefoed, Mrs. Regina, Copenhagen.
a Embroidery. 669
b Tapestries. 670
80. Larsen, Miss Agnes, Copenhagen.
Art embroidery. 669
81. Larsen, Miss Fanny, Copenhagen.
Laces. 664
82. Linde, Miss Elizabeth, Faxe, Sealand.
Art embroidery. 669
83. Petersen, Mrs. Julie, Copenhagen.
Art embroidery. 669
84. Ring, Miss Nanna, Copenhagen. Art
embroidery. 669
85. Silberloh, Mrs. L., Nestved, Sealand.
Art embroidery. 669
86. Stahlberg, Miss J., Copenhagen. Art
embroidery. 669

DEPARTMENT H.—MANUFACTURES.

- | | |
|--|---|
| <p>87. Stephansen, Miss M., Vejle, Jutland.
 <i>a</i> Lace handkerchief. 664
 <i>b</i> Art embroidery. 669</p> <p>88. Thomsen, Miss Elizabeth, Copenhagen. Art embroidery. 669</p> <p>89. Thompson, Mrs. Elizabeth, Copenhagen. Woven articles. 670</p> <p>90. Thun, Miss Anna V., Copenhagen. Silk lace. 664</p> <p>91. Vallentin, Mrs. Augusta, Copenhagen. Art embroidery. 669</p> <p>92. Warnich, Leifer, Horsens, Jutland. Gobelin paintings. 670</p> <p>93. Wesenberg, Mrs. Olivia, Copenhagen.
 <i>a</i> Lace for table decoration. 664
 <i>b</i> Embroidery. 669</p> <p style="text-align: center;">GROUP 108.</p> <p>94. Hoffgaard, A. E., Aarhus, Jutland. Hammocks. Dept. H 676</p> <p style="text-align: center;">GROUP 110.</p> <p>95. Dallerup, Baroness U., Copenhagen. Fancy articles. 695</p> <p style="text-align: center;">GROUP 111.</p> <p>96. Evald, I., Svendborg, Funen. Leather belting. Dept. A 704</p> <p>97. Holtz, I. A., Holbak, Sealand. Leather belting. Dept. A 704</p> <p>98. Jacobsen, Miss Julie, Copenhagen. Leather fancy articles. 705</p> | <p>99. Lassen, A. F., Holbak, Sealand. Leather belting. Dept. A 704</p> <p>100. Nielsen & Hausen, Copenhagen. Figured leather, gobelins, etc. 705</p> <p>101. Schroder, Bernh, Copenhagen. Figured leather, gobelins, etc. 705</p> <p style="text-align: center;">GROUP 112.</p> <p>102. Andersen & Jensen, Copenhagen. Weights. Dept. A 712</p> <p>103. Jorgensen, Edmund, Copenhagen. Weights. Dept. A 712</p> <p style="text-align: center;">GROUP 113.</p> <p>104. Fermansen, Chr., Copenhagen. Magazine rifle. 714</p> <p style="text-align: center;">GROUP 116.</p> <p>105. Pedersen, N., Brondesled, Sealand. Brass and tin work. 733</p> <p style="text-align: center;">GROUP 117.</p> <p>106. Meyer, E., Copenhagen. Fire screens. 738</p> <p>107. Warnich, Leifer, Horsens, Jutland. Fire screens. 738</p> <p style="text-align: center;">GROUP 121.</p> <p>108. Warnich, Leifer, Horsens, Jutland. Altar and appurtenances.</p> |
|--|---|

EAST INDIA.

Collective exhibit of H. H. the Maharajah of Mysore's Government through S. J. Tellery & Co. Installed in the East Indian pavilion.

DEPT. A—AGRICULTURE.**GROUP 1.**

- | | |
|--------------------|----|
| 1. Wheat. | 1 |
| 2. Rice. | 6 |
| 3. Ragi (a flour). | 11 |

GROUP 9.

- | | |
|------------|----|
| 4. Cotton. | 53 |
| 5. Wool. | 60 |

GROUP 14.

- | | |
|---|----|
| 6. Model of a Bengal agricultural farm. | |
| 7. Model of an indigo farm and factory. | |
| 8. Model of an oil farm and factory. | |
| 9. Model of a shellac farm and factory. | 78 |

GROUP 17.

- | | |
|----------------------------|----|
| 10. Ivory horns and tusks. | 90 |
|----------------------------|----|

GROUP 18.

- | | |
|--|----|
| 11. Sandal, cocoanut and cinnamon oil. | 95 |
|--|----|

DEPT. N—FORESTRY.**GROUP 19.**

- | | |
|--|-----|
| 12. Sandal-wood trees, logs, billets; teak, hanne and kari matti planks. | 99 |
| 13. Satin-wood logs. | 101 |
| 14. Tangadi bark, sak tree. | 103 |
| 15. Sandal-wood roots, powder, chips. | 108 |

GROUP 44.

- | | |
|--|-----|
| 16. Miscellaneous articles made of marble and alabaster. | 296 |
|--|-----|

GROUP 49.

- | | |
|---------------------|-----|
| 17. Iron and steel. | 334 |
|---------------------|-----|

DEPT. H—MANUFACTURES.**GROUP 89.**

- | | |
|----------------------------|-----|
| 18. Papier-mache articles. | 557 |
|----------------------------|-----|

GROUP 90.

- | | |
|--|-----|
| 19. Rose, sandal and teak-wood chairs. | 565 |
| 20. Tables of rose, teak, ebony, sandal and shishim woods. | 566 |
| 21. Furniture made of fancy woods, carved and inlaid. | 567 |
| 22. Curtains, portieres, etc. | 568 |
| 23. Mirrors. | 569 |

GROUP 91.

- | | |
|--|-----|
| 24. Painted and glazed pottery. | 575 |
| 25. Marble and alabaster models of the Taj, the Kutab Minar, the Bedri Masque (full size), a Hindu temple. Burmese pagodas and Temple of Kali. | 581 |

GROUP 93.

- | | |
|---|-----|
| 26. Repousse and chiseled art metal work. | 585 |
|---|-----|

EAST INDIA.

GROUP 96.

27. Wood carvings. 598
28. Ivory carvings. 599

GROUP 97.

29. Silver tableware. 605
30. Silver spoons, etc. 606
31. Miscellaneous fancy articles in silver. 607

GROUP 100.

32. Enameled brass, copper, gold and silverware. 608
33. Raw silks. 625
34. Plain silks. 628
35. Upholstery silks. 629
36. Silk handkerchiefs and dress pieces. 306

GROUP 101.

37. Grass mats. 635
38. Fine wire cloths mixed with silk. 637

GROUP 102.

39. Cotton, muslin and silver tinsel prints. 638

GROUP 103.

40. Woolen fabrics, embroidered and plain. 641
41. Cashmere shawls, etc. 642
42. Felt rugs. 648
43. Carpets, rugs, etc. 649

GROUP 104.

44. Wool, silk and velvet ready-made clothing. 652
45. Ladies' dresses, jackets and native costumes. 653
46. Caps and turbans. 654
47. Shoes. 656

GROUP 106.

48. Wool and silk laces. 664
49. Fans of sandal-wood, ivory, etc. 667
50. Embroidered trimmings. 668
51. Silk, silver and gold thread and tinsel, art embroideries and needle work. 669

GROUP 107.

52. Ivory combs. 675

GROUP 108.

53. Bags. 680
54. Ivory, ebony and sandal-wood canes. 681
55. Oil cloth and hand painted umbrellas. 682

GROUP 110.

56. Toys, swings, etc. 693

GROUP 113.

57. Swords, daggers, knives, etc. 717
58. Guns, spears, bows, etc. 718

DEPT. K—FINE ARTS.

GROUP 142.

59. Paintings on ivory of kings, queens, rajahs, etc.

GROUP 143.

60. Prints of gods and natives.

GROUP 144.

61. Modern wooden and antique ivory carvings.

DEPT. L—LIBERAL ARTS.

GROUP 147.

62. Model of an Indian village. 827

GROUP 151.

63. Photos of scenery. 871

GROUP 158.

64. Native musical instruments, part gilt, inlaid with semi-precious stones. 926
65. Drums, tambooras, etc. 927
66. Harps, guitars, zithers, etc. 928

DEPT. M—ETHNOLOGY.

GROUP 164.

67. Complete sets of Hindu and Burmese gods, models of Mohammedan marriage ceremony and funeral, wife sacrificing herself on the funeral pile of her deceased husband. Other ceremonies and objects of veneration, etc.

GERMANY.

GROUP 87.

1. Aktiengesellschaft fuer Chemische Industrie, Mannheim. Chemical technical apparatus. 548
2. Aktiengesellschaft fuer Chemische Industrie, Schalke i-W. Chemical products. 548
3. Bernhardt, Y., Leipsic. Pharmaceutical preparations. 547
4. Brueder Richter, Leipsic, Gohlis. Volatile oils and essences. 549
5. Chinin Fabrik Braunschweig, Brunswick. Quinine, cocaine, etc. 545

6. Chemische Fabrik Griesheim, Frankfurt-on-the-Main.
a Mineral acids. 543
b Alkaloids. 544
7. Chemische Fabrik Kalk, vorm. Forster Grueneberg, Cologne. Ammoniac salts, potassium, etc. 544
8. Chemische Fabrik vorm. E. Schering, Berlin. Chemical preparations for pharmacopœia. 547
9. Chemische Fabrik, vorm. Hofmann & Schoetensack, Ludwigshafen-on-Rhine. Chemical and pharmaceutical products. 547

DEPARTMENT H.—MANUFACTURES.

10. Fahlberg, List & Co., Salbke, West-
erhuesen, near Magdeburg. Sacharin
and sacharin preparations. 547
11. Farben, Fabriken, vorm, Friede,
Bayer & Co., Elberfeld. Pharmaceutical
products. 547
12. Farina, Johann Marie, Cologne.
Cologne water. 549
13. Fikentscher, Fr. Chr., Zwickau, Sax-
ony. Stoneware vessels for chemical
industry. 548
14. Fritschler, Winterhalder & Co.,
Voithenberghuette, near Furth, Bavaria.
Retorts, funnels, bottles. 548
15. Goedecke & Co., Leipsic.
a Fruit ether. 545
b Volatile oil. 549
16. Goldschmidt, Th., Essen-on-the-Ruhr.
Tin salts, zinc salts. 545
17. Graf, Dr., & Co., Berlin. Pharmaceut-
ical products. 547
18. Gcuttler, Reichenstein, Silesia.
Arsenic. 545
19. Haarmann & Reimer, Holzminden on
the Weser. Vaniline, heliotropine, etc. 549
20. De Haen, E., List, near Hanover.
Chemicals. 546
21. Heine & Co., Leipsic. Volatile oils,
essences, etc. 549
22. Hereus, W. C., Hanan. Platinum for
crucibles, etc. 548
23. Jaffé, Bruno & Darmsbaedter. Mar-
tinickenfelde, near Berlin. Bandoline. 549
24. Kern, Em., Edenkoben. Cognac oil,
tartar, etc. 547
25. Kgl. Preussische Porzellanmanufac-
tur, Berlin, Charlottenburg. Porcelain
vessels, etc., for chemical purposes. 548
26. Koelling & Schmitt, Zerbst-Anhalt.
Volatile oils and essences. 549
27. Koepp, Rud & Co., Oestrich-Rhein-
gan. Oxalic acid, etc. 543
28. Knoll & Co., Ludwigshafen-on the
Rhine. Alcaloids and glycosine. 544
29. Lehmann, Joh., Berlin. Pharmaceu-
tical preparations. 547
30. Lechner, L., Berlin. Cosmetics, etc.
549
31. Marquart & Schulz, Bettenhausen near
Cassel. Pharmaceutical and chemical pro-
ducts. 547
32. Marx, Heinr Carl, Harburg-on-Elbe.
Samples of safety fuse. 550
33. Merck, E., Darmstadt. Drugs. 547
34. Porzellan Manufactur, Kgl. Preus-
sische, Charlottenburg. Porcelain articles
for chemical purposes. 548
35. Riedel, J. D., Berlin. New chemical-
pharmaceutical products. 547
36. Rieger, Wilhelm, Frankfort-on-the
Main. Perfumeries. 549
37. Rhodius, Gustav, Tnh. Burgbrohl.
Carbonate and bicarbonate of potassium,
natron. 544
38. Sauberlich, Anton, Zwicken. Soap
and perfumes. 549
39. Schuchhardt, Theodor, Dr., Tnh. Dr.
Albert Weil, Goerlitz-Silesia. Scientific
pharmaceutical preparations. 547
40. Stassfurter Chemische Fabrik, vorm,
Vorster & Grueneberg, Stassfurt. Potas-
sium cyanide, cyanurate of potassium,
urea and cyanurates from blood. 544
41. Schaeffer, Dr., Charlottenburg, near
Berlin. Ammonia and salmiac. 544
42. Thiemann, H., jun., Stolp. i-P. Chem-
icals. 546
43. Wasmuth, A., & Co., Ottensen. Chem-
ical and pharmaceutical products. 547
44. Wassmuth, A., & Co., Barmen. Chem-
icals. 546
45. Witte, Dr., Rostock. Pharmaceutical
preparations, etc., 547
46. Vereinigte Fabriken chemisch-phar-
mazeutischer products. Frankfort-on-
Main. Salts of quinine, quinine, chinidin,
cocaine, etc. 545
47. Verein, chemischer, Fabriken, Mann-
heim. Chemicals. 546
48. Von Heyden, Dr., F. Nachf., Rade-
beul, near Dresden. Pharmaceutical
preparations. 547

GROUP 88.

49. Aktiengesellschaft fuer Anilinfabrika-
tion, Berlin. Artificial and organic color
substances. 552
50. Badische Anilin und Sodafabrik, Lud-
wigshafen-on-the-Rhine. Aniline and
other-color substances. 552
51. Bormann, G., Nachfo Tuhaber, Otto,
Berlin. Colors. 552
52. Bube, C., Hanover. Drawing appa-
ratus, etc. 555
53. Chemische Fabriken, vorm, J. W.
Weiler & Co., Cologne-Ehrenfeld. Pro-
ducts for the coloring of tea. 552
54. Eichler, W., Leipsic, Gohlis. Rapid
drawing apparatus. 555
55. Eiermann & Tabor, Fuerth, Bavaria.
Bronze ware and leaf-metal. 555
56. Faber, A. W., Stein near Nuremberg.
Ink oil colors. 552
57. Gademann & Co., Schweinfurt-on-
the-Main. Schweinfurter green, bronze,
etc. 552
58. German Gold and Silver Smelting Es-
tablishment, Frankfort-on-the-Main. Cer-
amic colors. 552
59. Gerstenecker, Anton, Neuhausen near
Munich. Tools for plastics. 555
60. Graf, Dr., & Co., Berlin. Colors. 552
61. Haenle, Leo, Munich. Leaf metal 555
62. Hartwig, Gebrueder, Offenbach-on-the
Main. Paper ornaments. 562
63. Hoermann, Carl, von und zu Guten-
berg, Nuremberg. Gold tinsel. 555
64. Jacobsen, Dr., Emil, Berlin. Water-
colors, enamel colors. 555
65. Kast & Ehinger, Stuttgart, Feuer-
bach.
a Colors for book-printing and litho-
graphy, printers' ink. 552
b Linseed oil varnish. 554
66. Koehler & Co., Fuerth. Leaf metal. 555
67. Kugelman, David, Kissingen. Ebony
enamel. 552
68. Kuhn's, E., Nuremberg. Gold and
silver wire. 555
69. Lampel, Bruno, Cologne-Ehrenfeld.
Colors. 552
70. Linse, Ed., Aachen. Pattern book for
artists. 555
71. Menne, Josef, Munderkingten a-D.
Painters' brushes, etc. 554

GERMANY.

72. Michel & Morell, Eppstein i-T. Hoechst-on-the-Main. Black colors. 552
73. Moritz, T., & Co., Hangenbieten near Enzheim, Alsace. Copying ink. 552
74. Mueller, Johann, Gottlieb & Co., Stuttgart. Artists' colors. 555
75. Pauli, Gebr., Nuremberg. Patent foil. 555
76. Rannefeld, W. & Co., Blankenburg-Harz. Colors. 552
77. Rhau, T. L., Nuremberg. Leaf metal. 555
78. Rosenhaupt, H., Fuerth. Bronze colors. 552
79. Schaal, Dr. Eugen, Feuerbach near Stuttgart.
a Lac dye. 552
b Lacquer. 554
80. Schoener, Georg., Nuremberg. Drawing instruments. 555
81. Segitz & Neithardt, Fuerth. Bronze powder. 555
82. Siegle, G. & Co, Stuttgart. Colors. 552
83. Spiegelberger, Ludwig, Fuerth. Leaf gold. 555
84. Tintenfabrik Ludwigshafen, Ludwigshafen-on-the-Rhine. Inks. 552
85. Ullmann, Bernh., & Co., Fuerth. Bronze colors. 552
86. Vereinigte Pinselfabriken, Nuremberg. Paint brushes. 554
87. Vereinigte Ultramarinfabriken, Nuremberg. Ultramarine. 552
88. Weidener, T. L. & P., Nuremberg.
a Bronze colors. 552
b Leaf metal. 555
89. Werner, Frz. P., Munich. Gold tinsel. 555
90. Zierlein, Gebr., Nuremberg. Paint brushes. 554

GROUP 89.

91. Ahlhelm & Co., Bismarcks-thal-Loesnitz, Saxony. Paper spools. 557
92. Berndt, Wilh. R., Berlin. Paper. 560
93. Brauer, F., Oskar, Buchholz i-S. Fancy stationery goods. 564
94. Duenkelsbuchler & Co., Nuremberg. Lead and colored pencils. 564
95. Faber, A. W., Stein, near Nuremberg. Lead and colored pencils, slates. 564
96. Faber, Joh., Nuremberg. Pencils, lead, slate, colored, etc. 564
97. Haenle, Leo., Munich. Gold and silver paper. 562
98. Heintze & Blankertz, Berlin. Pens and penholders. 564
99. Hochstein & Weinberg, Berlin. Glazed paper and cardboard. 557
100. Hohenstein & Lange, Berlin. Lamp shades, fancy paper wappers for flower pots. 557
101. Leichtlin, Gebr., Karlsruhe. Stamping paper, linen paper for drawing. 560
102. Motz, L. W., & Co., Berlin. Metal stationery articles. 564
103. Nopitsch, M., Schweinau, near Nuremberg. Lead and colored pencils, etc. 564
104. Papierfabrik Sendern-Sendern i-W. Paper. 556

105. Scherer's Gebr. Papier u Tapetenfabrik. Bannenthal, near Heidelberg. Wall paper. 563
106. Schreiber, Richard, & Co., Raschau-Saxony. Stucco of paper and kylogenite. 563
107. Schroeter, Wilh., Ehrenfriedersdorf-Saxony. Stucco of paper and kylogenite. 563
108. Schwanhaeuser, G., Nuremberg. Lead and oil chalk pencils. 564
109. Siegert, Hugo, Breslau. Ink stand, writing case. 564
110. Sonnenthal & Kloffke, Berlin. Book-binding work. 561
111. Steinbach Co., Malmedy, Prussia. Writing paper, paper for photography. 560
112. Tetzler, Reinh., Berlin.
a Inks. 552
b Mastics. 554
113. Vereinigte Strohstoff Fabriken, Dresden. Straw in various stages of production. 556
114. Wiede's Papier Fabrik, Rosenthal-Reuss. Paper. 556
115. Wuest, C. L., Frankfort-on-the-Main. Playing cards. 557
116. Zuber, T., & Co., Rixheim, Alsace.
a Decorated paper. 562
b Wall paper. 563
117. Zellstoff Fabrik, Waldhof near Mannheim. Illustration of the manufacture of paper from cellular substance. 556
118. Zucker & Co., Erlangen. Stationery. 564

GROUP 90.

119. Adelhard, Johann, Nuremberg. Wood mosaic pictures. 572
120. Aktiengesellschaft fuer Glas, Spiegel und Zinnfolien fabrikation, Fuerth. Mirrors. 569
121. Aktiengesellschaft fuer Marmorindustrie Kiefer, Kiefersfelden. Marble doors and a marble fire-place. 570
122. Andrea, Christoph, Muelheim-on-the-Rhine. Velvet wall decoration. 571
123. Apitzsch, Otto, Dresden. Picture painted on silk. 572
124. Bachmann, W., Fuerth. Mirrors. 569
125. Ballin, M., Munich. Artistic furniture. 567
126. Barth, Conrad & Co., Munich.
a Mirror. 569
b Ceiling, walls and portal. 571
127. Biedermann, H., Fuerth. Mirrors. 569
128. Bock, Louis & Sohn, Hamburg.
a Rococo mirrors. 569
b Easel. 572
129. Bomeisler, M. S., Fuerth. Mirrors. 569
130. Braun, Louis, Munich. Painted screen. 572
131. Baechenbacher, Sigm., Fuerth. Mirrors. 569
132. Diestelhorst, T. L., Karlsruhe. Artistic and luxurious furniture. 567
133. Dietrich-Zauner, Pauline, Frau, Munich. Rococo screen, painted on glass. 572
134. Engelhardt & Kalbrich, Elberfeld. Patterns for the painting of ceilings. 571
135. Eysser, T. A., Nuremberg. Artistic furniture. 567

DEPARTMENT H.—MANUFACTURES.

136. Fahnkow, E. R., Berlin. Dining-room of walnut in Dutch renaissance. 572
137. Fischer, O., Berlin. Upholstery work. 568
138. Fraenkel, Gebr, Fuerth. Mirrors. 569
139. Friedrich, O. B., Dresden. Ebony table with engravings of ivory. 566
140. Fuchs, Max, Munich. Rococo mirror. 569
141. Gebhardt, Fritz, Heidelberg. Artistic furniture. 567
142. Geyer, Arthur, Bayreuth. Collection of Rococo frames. 569
143. Goldenberger, Wilhelmine, Munich. Screens, pictures. 572
144. Grimme & Hempel, Leipsic. Diaper work and fancy panels. 570
145. Grisebach, Hans, Berlin. Living room of Italian walnut. 572
146. Groschkus, T., Berlin.
a Furniture. 567
b Mirrors. 569
147. Haeupler & Holzapfel, Stuttgart. Easel with frame. 572
148. Harrass, B., Boehlen, Thuringen and Berlin. Artistic wood work. 570
149. Heckel, Paul, Eibenstock. Embroidered covers. 573
150. Heilbronn, Leopold, Fuerth. Mirrors. 569
151. Heinze, Carl & Co., Dresden. Artistic furniture. 567
152. Hering, Gebre, Koenigstein, i-S. Gold and bronze mouldings for frames. 569
153. Hiebl, C. L., Berlin. Automatic chairs. 565
154. Hoffmann, Robert, Dresden. Furniture. 567
155. Hohnstein & Holweg, Fuerth. Mirrors. 569
156. Hupp, Otto, Schleissheim-near-Munich. Painting of ceiling and upper windows. German pavilion. 571
157. Kanter, David, Breslau. Luxurious furniture. 567
158. Keller, Jakob, Nuremberg. Designs for furniture. 567
159. Kempe, Antoine, Munich. Screen. 572
160. Kirchenbauer, Ernst, Karlsruhe. Pictures. 572
161. Klein, E. O., Dresden Altstadt. Picture made of feathers. 572
162. Kleinerz, Wilhelm, Cologne. Carved bedstead. 567
163. Kunz, Adam, Munich. Decorated door. 571
164. Lehmann, J. L., Fuerth. Mirrors. 569
165. Lindheimer, Philipp & Co., Frankfurt-on-the-Main. Embroidered piano covers, etc. 573
166. List, Jakob, Munich. Upholstered furniture. 567
167. Macco, Paul, Heidelberg. Mosaic substance for furniture. 567
168. Marx, Emil, Fuerth. Mirrors. 569
169. Mayrhofer & Klemann, Passau. Metal mirrors. 569
170. Meurer & Braun, Lahr, Baden.
a Mirror frames. 569
b Picture frames. 572
171. Montgelas, Graefin, Marie, Munich. Painted gobelin screen. 572
172. Morgenthau, M., Fuerth. Mirrors. 569
173. Nager, Franz & Pfeiderer, Friedrich, Munich. Painted room. 572
174. Neubauer, M., Munich. Dining room. 572
175. Offenbacher, Gebr, Fuerth. Mirrors. 569
176. Offenbacher, Max, Fuerth. Mirrors. 569
177. Pecht, J. A., Konstanz. Paintings on leather. 572
178. Perchermeier, Jos, Traunstein. Decorated chest. 572
179. Peters, G., Berlin. Ornamental furniture. 567
180. Petry Jakob, Neider Branbasch. Red agate writing set. 572
181. Pfaff, J. C., Berlin. Music salon, gentlemen's room, dining-room with outfit. 572
182. Praechtel, C., Berlin. Outfit and decoration for two rooms. 572
183. Troessl, Johann, Fuerth. Mirrors. 569
184. Radspieler, C. & Co., Munich
a Fancy furniture. 567
b Mirrors. 569
185. Radspieler, F. & Co., Munich.
a Carved doors, etc. 571
b Decorative articles. 572
186. Rappa & Giobbe, Munich.
a Mirror frame and stand. 569
b Wall decorations, skylight. 571
187. Rathgeber, Jos., Munich. Two door wings of walnut wood with mosaics. 571
188. Reidinger, L. A., Augsburg. Figure for bay window. 571
189. Rockhausen Ernst, Waldheim. Hollow mouldings. 570
190. Roehlick, H. W., Berlin. Screens, paintings with gold frames. 572
191. Rosenau, Simon, Kissingen. Bric-a-brac, jardinières, etc. 572
192. Ruegnig, Ludwig & Co., Coburg. Folding furniture. 567
193. Land, Karl, Ludwig, Frankfort-on-the-Main. Towel stand. 567
194. Sauermann, Heinrich, Flensburg. Carved lower German living room. 572
195. Schiffmann, Frau Direktor, Munich. Embroideries for the walls of the German pavilion. 573
196. Schlesische Holzindustrie, Gesellschaft, vorm. Ruschewegh & Schmidt, Langenoels. Patent furniture. 567
197. Schumacher, Karl, Kaiserslautern. Window shades. 571
198. Schneller, Simon, Munich. Residence and convent drinking room in German renaissance. 572
199. Schuster, Karl, Berlin.
a Chairs. 565
b Desks. 567
200. Schwarz, Albert, Ravensburg. Embroidered curtains. 568
201. Seidl, Gabriel, Prof. Architekt, Munich. Artistic rooms for the reception of art industrial exhibits. 572
202. Seitz & Seidl, Tnh. Emanuel Seidl, Munich. Design of the hall of the Munich collective exhibit. 570
203. Steinmetz, Jos., Munich. Sideboard, Carved and gilded drawing-room furniture. 567

204.	Trost, C., Berlin.	Stairway.	570
205.	Vogler & Kachholz,	Hamburg.	570
	Diaper work.		
206.	Voigt, Ferd, Berlin.	Furniture of bronze mosaic.	576
207.	Weinert, Joh., Berlin.	Wire chairs.	565
208.	Wenig, Lorens, Berchtesgaden.	Furniture of cut crystal.	567
209.	Werner, Frz. P., Munich.	Spring mattresses.	567
210.	Westphal & Reinhold, Berlin.	Patent spring mattresses.	567
211.	Winkler, Chr. & Sohn, Fuerth.	Mirrors.	569
212.	Winkler & Kuett, Fuerth.	Mirrors.	569
213.	Wulff, Adolf, Bayreuth.	<i>a</i> Mirror frames. <i>b</i> Pictures and screens.	569 572
214.	Zimmermann, G., Fuerth.	Metal mirrors.	569
237.	Lambertz, Servais & Co., Ehrang,	near Trier. <i>a</i> Clay plates. <i>b</i> Mosaic pavement, etc.	574 580
238.	Lindner, Bud., Waltershausen,	near Gotha. Animal figures of terra cotta.	574
239.	Lonitz, Hugo & Co., Neuhausdensleben,	near Magdeburg. <i>a</i> Terra cotta ware. <i>b</i> Majolica.	574 575
240.	Merkelbach & Wick, Yrenzhhausen,	near Coblenz. Ornamented stoneware.	575
241.	Mueller, E. & A., Schwarz, Saal- bahn.	Fancy articles of porcelain.	577
242.	Nerbel, F., Mosbach, i-B.	Majolica stoves.	575
243.	New York & Rudolstadt Pottery Co., Rudolstadt.	Sets of porcelain.	577
244.	Porzellan Manufactur, Kgl., Saech- sische, Meissen, Saxony.	Porcelain goods of all kinds.	577

215.	Bertram, Bernhard, Lueftelberg near Bonn.	
	<i>a</i> Majolica vases.	575
	<i>b</i> Faience vases.	576
216.	Brach, A., Klein-Bittersdorf near Saargemuend. Hall, kitchen and sidewalk flooring.	580
217.	Brasch, A., Berlin. Vases of burned clay.	577
218.	Donath & Co., Dresden. Painted porcelain.	577
219.	Dressel, Kister & Co., Passau, Bavaria. Bric-a-brac of porcelain.	577
220.	Du Jardin, Aug., Metz. Art objects of stoneware.	575
221.	Duvignau O. & Co., Magdeburg. Majolica fireplace ornaments.	575
222.	Eckardt, A. L., Dresden. Painted porcelain.	577
223.	Ens & Greiner, Lauscha, Saxony, Meiningen. Paintings on porcelain.	577
224.	Garten, S. & Co., Neugruena Blaszewitz. China sets.	576
225.	Glatz, Joh., Willingen, Baden. Majolica.	575
226.	Goldenberger, Wilhelmine, Munich. Decorated plates.	577
227.	Guenther, Jos., Dresden. Paintings on porcelain.	577
228.	Hamann, Ad., Dresden. Miscellaneous articles of painted porcelain.	577
229.	Hanke, Reinhold, Goehr, near Coblenz. Stoneware and majolica.	575
230.	Hutschenreuther, L. M., Hohenberg, Bavaria. Table and desert sets.	577
231.	Kaufmann, T. S., Frankfort-on-the-Main. China articles.	576
232.	Kgl., Porzellan Manufaktur, Bazarische, Nymphenburg, near Munich. Household and fancy articles of porcelain.	577
233.	Porzellan Manufaktur, Kgl., Prussische, Berlin, Charlottenburg. Household and fancy articles of porcelain.	577
234.	Klemm, Richard, Dresden. Painted chinaware.	576
235.	Knoeller, Louis, Dresden. Fancy articles of painted porcelain.	577
236.	Koenig, Th., Munich. Porcelain paintings. etc.	577

254. Aktiengesellschaft fuer Mormorin-
dustrie Kiefer, Kiefersfelden. Marble
basins and benches. 582

255. Beutenmueller, C., Co., Bretten.
Metal wreaths and decorations for graves.
583

256. Boesmiller, Ludwig, Munich. Con-
soles with bust, etc. 583

257. Weigel, Anton, Munich.* Marble fig-
ure. 583

258. Aktiengesellschaft vorm H. Gladen-
besk & Sohn, Friedrichshagen near Ber-
lin. Objects of bronze, art castings. 585

259. Arndt & Markus, Berlin. Bronze
articles, art castings. 585

260. Barillot, L., Berlin. Bronze stat-
uettes. 585

261. Bayerische Bronsewaarenfabrik, Nu-
remberg. Art bronzes. 585

262. Castner, A. Nacshf, Martin & Piltz-
ing, Berlin. Art objects of metal and
embossed work. 585

263. Chuehl, W., Berlin. Bronze ware. 585

264. Eisenwerk Gaggenau, Gaggenau,
i-B. Art castings. 585

265. Fuerstlich Stollbergsches Huette-
namt, Tlsenburg, a-E. Art castings in
iron. 585

DEPARTMENT H.—MANUFACTURES.

266. Grohe, Gustav, Berlin. Bronze articles. 585
267. Grohmann, Emil, Berlin. Enamels. 586
268. Guiremand, Th., Berlin. Embossed articles of copper and brass. 585
269. Held, Hermann, Magdeburg. Medals and chased work. 585
270. Kaufmann, T. S., Frankfort-on-the-Main. Enamel work. 586
271. Kehr, Leonhard & Palm, Nuremberg. Chased work. 585
272. Knodt, G., Bockenheim Frankfort a-M. Bust of Emperor William I. 585
273. Krohne, Emil, Berlin. Bronze fire-places, etc. 585
274. Kusterer, F. H., Augsburg. Embossed copper and brass work. 585
275. Lauer, L. Chr., Nuremberg. Medals, coins, stamped metal work. 585
276. Leyrer, Cosmos, Munich. Chased bronzes. 585
277. Mayer, Wilhelm, Stuttgart. Medals, stamped metal works. 585
278. Moebes, W., Berlin. Sets of ornaments for doors and windows. 585
279. Mulack, E. H., Berlin. Embossed work of tinned copper. 585
280. Oertel, Otto, Berlin. Medals. 585
281. Oestermann, L., Berlin. Medals. 585
282. Peartree & Co., Berlin. Bronze articles. 585
283. Pirner & Franz, Dresden. Figures and groups of bronze. 585
284. Rakenius, Karl & Co., Berlin. Groups, table ornaments. 585
285. Rasmussen, Otto, Berlin. Embossed and chased work. 585
286. Rohloff, Otto, Berlin. Embossed and chased work. 285
287. Schiller, Georg, Berlin. Medals. 585
288. Schirm, C. C., Berlin. Enamels mounted in metals. 586
289. Schoene, Aug. & Mueller, Dresden. Artistic articles embossed in copper. 585
290. Schuls, Otto, Berlin. Majolica articles mounted in bronze and zinc. 585
291. Seitz, H., Munich. Art objects embossed in copper. 585
292. Seitz, Tul., Freiburg i-B. Bronze reliefs. 585
293. Stehle, Aloie, Munich. Small bronze statue. 585
294. Stotz, Paul, Stuttgart. Art objects of bronze, iron casting. 586
295. Stuebbe, A., Berlin. Enameled bronzes. 586
296. Thomas, Adolf, Berlin. Embossed and chased work. 585
297. Walther, Heh., Munich. Ornamental sculpture. 585
298. Wichart, T., Munich. Embossed copper ware. 585
299. Wiedemann, Professor, Berlin. Bronze figure. 585
300. Wolf, H., Berlin. Bronze ware. 585
301. Rasmussen, Georg, Berlin. Embossed portraits, chased work. 585
302. Rauch, Jos., Munich. Ornamental sculpture. 585
303. Schweizer, Chr. & Soehne, Tuebeck. Enamel signs. 586
304. Hertel, C. & Son, Hansan. Enamels. 586
305. Kolloff & Bantze, Berlin. Fancy metal articles. 585
306. Krieger, Franz, Munich. Figures. 585
307. Lampel, Joh., Munich. Figures. 585
308. Marcus, Paul, Berlin. Chased work. 585
309. Bruett, Ferdinand, Berlin. Ornamental group. 585
310. Ehrhard & Soehne, Schwaeb, Gmuend. Bronze articles. 585
311. Eisenwerke Gaggenau Aktiengesellschaft, Gaggenau, Baden. Metal enamel. 586
312. Eysser, J. A., Nuremberg. edForg iron railing. 585
313. Hahn, Munich. Escutcheon with angels. 585

GROUP 94.

314. Begfuss Metallwaarenfabrik, Frankfort-on-the-Main. Pyramid of plate glass. 589
315. Fritzner, N., Berlin. Bottles and stoppers. 590
316. Grosse, E., Berlin. Marmaraceous and granitical glass. 593
317. Hermann Rocholl, Minden. Bottles. 590
318. Lichtinger, Joseph, Munich. Artistic glassware. 593
319. Maazer, Franz & Pfeiderer, Friedrich, Munich. Painted glass chamber outfit. 592
320. Roehrig, Karl, Braunlage a-H. Plate glass. 589
321. Rheinische Glasshuetten-Aktiengesellschaft, Cologne-Ehrenfeld. Fancy glassware. 593
322. Theresienthaler Krystallglasswaarenfabrik, Theresienthal Bavaria. Wine glasses, table sets, etc. 691
323. Vittali, Otto, Offenburg i-B. Etched glass. 592
324. Zitzmann, Friedrich, Wiesbaden. Goblets, vases, etc. 592

GROUP 95.

325. Auerbach & Co., M., Berlin. Stained glass work. 696
326. Beiler, H., Heidelberg.
 a Stained glass work. 596
 b Ecclesiastical stained glass work. 597
327. De Bouché, Carl, Munich.
 a Ornamental windows. 596
 b Church windows. 597
328. Drinneberg, Hans, Karlsruhe. Stained glass work. 596
329. Eissgruber, Sebastian, Nuremberg. Ecclesiastical stained glass work. 597
330. Ganter, R., Berlin. Stained glass work. 596
331. Geiges, Fritz, Freiburg i-B. Stained glass work. 596
332. Geuer, J. J., Kempen. Stained church windows. 597
333. Grosse, E., Berlin. Ecclesiastical stained glass work. 597
334. Lewy, Karl, Charlottenburg. Glass wall decorations. 596
335. Marcus, Max, Berlin. Stained glass windows. 596
336. Mayer & Co., Munich. Ecclesiastical glasswork. 597

GERMANY.

337. Mosimann, Karl, Munich. Stained glass window. 596
 338. Naager, Franz & Pfeiderer, Friedrich, Munich. Stained glass windows. 596
 339. Oidtman, D. G. & Co., Linnich, Rhineland. Stained glass work. 596
 340. Schell, Wilhelm, Offenburg. Stained glass work. 596
 341. Schneider, M., Regensburg. Stained glass work. 596
 342. Spinn, T. C. & Co., Berlin. Stained glass work. 596
 343. Staudinger, Alvis, Munich. Stained glass work. 596
 344. Van Treek, Gustav, Munich.
 a Civic stained glass work. 596
 b Ecclesiastical stained glass work. 597
 345. Ule, Karl, Munich. Painted windows. 596
 346. Westphal, Louis, Berlin. Stained glass work. 596
 347. Zettler, F. X., Munich. Ecclesiastical stained glass work. 597

GROUP 96.

348. Albertshofer, Gg., Munich. Figures. 601
 349. Barillot, L., Berlin. Ivory statuettes. 599
 350. Bittner, Josef, Munich. Statuettes. 601
 351. Borgfeldt, T. I., Berlin. Cork carvings. 598
 352. Christ, Fritz, Munich. Group and statuettes. 601
 353. Dieseel, Anton, Munich. Wood carving. 598
 354. Dittrich, Oswald O., Dresden. Wood carvings. 598
 355. Drexler, Franz, Munich. Wood carving. 598
 356. Eberle, Jos, Meberlingen i-B. Wood carving. 598
 357. Fischer, Erhard, Munich. Statuettes. 601
 358. Fischer, Karl, Munich. Wood carving. 598
 359. Fritz, Robert, Suhl. Engravings for escutcheons. 601
 360. Grosshersch, Badische Schnitzerschule, Furtwangen. Wood carving. 598
 361. Haebler, C. L., Baden-Baden. Wood carvings. 598
 362. Hammer, Eduard, Berlin. Wood carving. 598
 363. Hanneck, Gustav, Brunswick. Engravings on ivory. 599
 364. Haseroth, Max, Berlin. Engravings on gems and metal. 601
 365. Held, Hermann, Magdeburg. Metal engravings. 601
 366. Hoetzel, D., Berlin. Gem engraving. 602
 367. Kauzmann, Gebr., Gieslingen. Artistic articles of ivory. 599
 368. Keller, Moritz & Co., Berlin. Wood carving. 598
 369. Kister, A. W., Fr., vorm, Dressel, Kister & Co., Scheibe, Schwarzburg, Rudolstadt. Groups of bisque and porcelain. 603
 370. Kleinerz, Wilhelm, Cologne. Carved pedestal. 598
 371. Klejrel, Wilh., Munich. Wood Carving. 598
 372. Kounsmann, Gebr., Geislingen a-H. Wood carving. 598
 373. Kramer, Conrad, Kampen. Carved gothic group. 598
 374. Kramer, Fritz, Kempen. Picture groups carved. 598
 375. Lehmann, Karl, Nuremberg. Statuette. 501
 376. Marcus, Paul, Berlin. Etchings of copper, brass and forged iron. 601
 377. Maybach, Heinrich, Karlsruhe. Wood carvings. 598
 378. New York and Rudolstadt Pottery Co., Rudolstadt. Decorated figures and vases. 603
 379. Otto, R., Berlin.
 a Engravings on metals. 601
 b Engravings on gems, cameos. 602
 380. Pfahrer, Friedrich, Triberg. Wood carvings. 598
 381. Prugger, M., Bogen, Munich. Figures and busts of porcelain imitation. 603
 382. Rombach, Philemon, Furtwangen. Wood carvings. 598
 383. Rosenan, Simon, Kissinger. Ivory carvings. 599
 384. Rudolph, Bernh., Stuttgart. Wood carving. 589
 385. Schaupp, Bernh., Karlsruhe. Wood carving. 598
 386. Schauppan, Gustav, Berlin.
 a Metal engraving. 601
 b Gem engraving. 602
 387. Senff, Wilhelm, Luebeck. Christ's descent from the cross (carved). 598
 388. Steiner, S., Fuerstenfeldbruck, near Munich. Gothic altar with carved statues. 598
 389. Stumpf, Margaretha, Munich. Ivory carving. 599
 390. Triebner, Miss Eckert, Volkstadt, near Rudolstadt. Porcelain figures. 577
 391. Van Venrooy, Otto, Rueppur, i-B. Carved frame. 598
 392. Vogt, Leonard, Memmingen. Gothic altar of oakwood. 578
 393. Walch & Soehne, Berchtesgaden. Painted crystal carvings. 692
 394. Wind, Joseph, Munich. Statuette. 601
 395. Winker, Christian, Munich. Small figures. 601

GROUP 97.

396. Bayerische Bronze Waarenfabrik, Nuremberg. Artistic articles of aluminum and silver. 610
 397. Bertsch, L., Karlsruhe. Gold and silver ware. 604
 398. Binder, Wilhelm, Schwaeb-Gmuend. Silverware. 605
 399. Deutsch, Euzen & Co., Mussbach. Aluminum ware. 610
 400. Drews, H., Pforzheim. Match boxes, card holders, etc. 607
 401. Glaser, Gebr., Hanar on the Main. Antique and modern silverware. 605
 402. Halbreiter, Adolph, Munich.
 a Gold and silverware. 604
 b Plated and metal ware. 611
 403. Harrach, F., & Sohn, Munich. Silverware. 605

DEPARTMENT H.—MANUFACTURES.

404. Heiden, Theodor, Munich. Gold and silverware. 604
405. Hertel, C., & Son, Hansan. Gold and silverware. 604
406. Kissling, Chr., Hanau. Gold boxes, etc. 607
407. Hein., F. W., Pforshiem. Fancy articles in silver. 607
408. Kollof & B ntze, Berlin. Fancy metal ware. 608
409. Kugelmann, David, Kissingen. Antique silver ware. 605
410. Leyrer, Cosmos, Munich. Fancy silver articles. 607
411. Mayer, Martin, Mayence. Fancy articles in silver filigree, corals and gems. 607
412. Neresheimer, P. & Soehne, Hanau. Embossed work. 608
413. Ochs & Bann, Hanau. Silver buttons, watch guards and bracelets. 607
414. Ott & Co., Hanau. Silverware. 612
415. Paar, Ludw., Narhf L., Bertsch, Karlsruhe. Gold and silver work. 604
416. Rosenau Simin, Kissengen. Silver and gold ware. 604
417. Rothmueller, K., Munich. Gold and silver articles. 604
418. Schallmayer, Theodor, Munich.
a Goblets, cups, table ware. 605
b Fancy articles. 607
419. Schleissner, T. D., Soehne, Hanau. Embossed art work. 608
420. Schuermann E. & Co., Frankfort-on-the-Maine. Fancy silver articles. 607
421. Soergel & Stollmeyer, Schwalbmuend. Silver thimbles. 607
422. Stadler, Nicholas, Munich.
a Silver pot. 605
b Silver jewel box. 607
423. Steinheuer & Co., Hanau. Silver chains. 607
424. Suedes, Paul, Pforshiem. Fancy articles in silver. 607
425. Thomas, Arnim & Co., Berlin. Fancy articles of gold and silver filigree. 604
426. Truebner, N., Heidelberg. Embossed silver vessels. 605
427. Wiminier & Rieth, Pforshiem. Fancy silver articles. 607
428. Winterhalter, Karl, Munich. Goldware. 604
429. Wollenweber, Eduard, Munich. Goblets, coffee and tea sets, etc. 604
430. Zimmermann, E. G., Hanau. Artistic silverware. 604
- GROUP 98.**
431. Blaske, Max, Berlin. Diadems, brooches, etc. 612
432. Blum, Karl, Munich. Gold and silver ornaments. 612
433. Bornett, Karl, Pforshiem. Jewelry. 612
434. Breitenbarch, Karl, Birkenfeld, a-d-N. Cut cameos. 614
435. Dillenius, Karl, Pforshiem. Jewelry. 612
436. Doeppenschnitt, Ph., Pforshiem. Filigree jewelry. 612
437. Dreher, August, Hettstein. Engraved agates. 614
438. Fiessler, Louis & Co., Pforshiem. Gold and silver chains. 612
439. Fillmann, August, Obertiefenbach. Agate, jasper, etc. 614
440. Gauss, Gebr., Pforshiem. Chains, lockets and buttons. 612
441. Grossmann, Ludwig, Pforshiem. Gold rings. 612
442. Grubenir, A., Hanau. Jewelry. 612
443. Hadler, Nicolaus, Munich. Jewels. 613
444. Hauber, Gustav, Schwab-Gmuend. Chains, lockets, etc. 612
445. Heim, F. W., Pforshiem. Onyx. 614
446. Hertel, C., & Sohn, Hanau. Jewelry. 612
447. Heymann, H., Danzig. Ornaments, etc., of amber. 614
448. Hirschmann & Koch. Pforshiem. Jewelry. 612
449. Houy, Philipp, Oberstein.
a Ornaments of gems. 612
b Ornaments of agate. 614
450. Kahn, T. S., Pforshiem. Cuff buttons and chains. 612
451. Katz, Emil, Pforshiem.
a Automatic jewelry. 612
b Mounted doublets. 615
452. Kiehle, August, Pforshiem. Jewelry. 612
453. Keller, Ph., K. F., Sohn, Oberstein.
a Jewelry. 612
b Agate ornaments. 614
454. Klippel, Friederich, Oberstein.
a Real gems. 613
b Imitation stones. 615
455. Krauth, Peter, Hettstein. Agates. 614
456. Kreuter, Fr., & Co., Hanau. Jewelry. 612
457. Kronk, Fredrich, Pforshiem. Neck chains. 612
458. Kuhnle, Gebr., Pforshiem. Jewelry. 612
459. Kuppenheim, Louis, Pforshiem. Jewelry. 612
460. Kur-Schuettner, C., Hanau. Jewelry. 612
461. Lange, Martin, Berlin. Artificial diamonds and pearls. 615
462. Lauer & Binder, Pforshiem. Enamelled jewelry. 612
463. Levin, Gebr., Brunswick. Plated jewelry. 616
464. Mahla, F., Pforshiem. Gold rings. 612
465. Mayer, Martin, Mayence:
a Silver filigree, etc. 612
b Gems. 613
466. Merk, Gg. Jnh Paul Merk, Munich. Jewelry. 612
467. Ochs & Bann, Hanau.
a Gold ornaments. 612
b Doublets. 615
468. Ott & Co., Hanau. Jewelry. 612
469. Pegan, Adolf, Pforshiem. Jewelry. 612
470. Peine, Eduard & Co., Hamburg. Cuff buttons of gold and pearl. 613
471. Petry, Jakob, Nieder Branbach. Red agate seals. 614
472. Pomtlen, A., Pforshiem. Jewelry. 612
473. Rhein & Co., Gr. Anheim. Figures. 585
474. Roessle, G., Pforshiem. Gold chains. 612
475. Schuetz, Friedr, Hanau.
a Jewelry. 612
b Gems. 613
476. Schuetz, Heinrich, Pforshiem. Jewelry. 612

GERMANY.

477. Schulz, Johann, Geo, Birkenfeld. Cut cameos. 614
478. Soergel & Stollmeyer, Schwalb-Gmuend. *a* Gold thimbles. 612
b Imitation metal thimbles. 616
479. Steinheuer & Co., Hanau. *a* Gold chains. 612
b Gilt chains. 616
480. Thiele & Steinert, Berlin. Gold and silver wire, military trimmings, etc. 616
481. Thomas, Arnim & Co., Berlin. Gold and silver filigree ornaments. 612
482. Unter Ecker, Ernst, Pforsheim. Jewelry. 612
483. Wensel, Rudolf, Oberstein. Agate and stone ornaments. 614
484. Wild & Co., Pforsheim. Jewelry. 612
485. Wimmer & Rieth, Pforsheim. Jewelry. 612
486. Winter, Ed. & Co., Pforsheim. Fine jewelry. 612
487. Wittum, Albert, Pforsheim. Gold crosses. 612
488. Woehler, Ed., Schwalb-Gmuend. *a* Jewelry. 612
b Corals. 614
c Imitations. 616
489. Zerrenner, F., Pforsheim. Bracelets and brooches. 612
490. Zieher, Ottmar, Schwalb-Gmuend. Jewelry. 612
491. Zausmer, A., Dansig. Agate amber and cat's-eye ornaments. 614
- GROUP 99.**
492. Artzold & Popitz, Leipsic. Clocks. 621
493. Beha, Joh. B., & Soehne, Gisenach. Cuckoo and musical clocks. 621
494. Berger, Walter & Co., Goetzenbrueck, Lorraine. Watch glasses. 618
495. Bradel, Jacob, Munich. Rococo clock. 621
496. Conti, Alfred, Berlin. Clocks with advertising columns and signal system. 621
497. Dick, Friedrich, Esslingen. Tools for watch-makers, etc. 620
498. Duerrstein & Co., Dresden. *a* Watches. 617
b Novelties in works. 618
c Decorated cases. 619
d Decorated clocks. 621
499. Eberle, J. N., & Co., Augsburg. *a* Watch-makers' tools. 620
b Clock springs. 622
500. Ette & Mischke, Berlin. Clocks. 621
501. Furtwaengler, L. Soehne, Furtwangen. Clocks. 621
502. Hahn, Theodor, Stuttgart. Clocks for watchmen. 621
503. Haller, Thomas, Schwenningen. Clocks. 621
504. Hoefler, Jos., in Firma Maurer & Hoefler, Eisenbach. Wall clocks. 621
505. Jahresuhren Fabrik, Aktiengesellschaft, Triberg. Clocks. 621
506. Jagemann, J., Munich. Clocks. 621
507. Junghaus, Gebr., Schramberg. Clocks. 621
508. Kleinerz, Wilhelm, Cologne. Clock cases. 621
509. Kronklaue, Jos., Munich. Clock cases. 622
510. Lange, A., & Soehne, Gleshuetete. *a* Watches. 617
b Works. 618
c Parts of cases. 619
511. Mauthe, Friedr, Schwenningen. "Black Forest" clocks. 621
512. Peters, Fr., Berlin. *a* Clocks. 621
b Dial for the tower clock of the German Building. 622
513. Peters, G., Berlin. Clocks. 621
514. Pfahner, Friedr., Triberg. Carved clocks. 621
515. Pleissner, Robert, Dresden. *a* Watches. 617
b Wall and stand clocks. 621
516. Rappa & Giobbe, Munich. Clock case. 622
517. Rochlitz, C. F. Grossuhrenfabrik, Jnh. Heinrich Ernst, Berlin. Tower clock for the German Building. 621
518. Schneckenburger, R., Muehlsheim-on-the Danube. Wall clocks. 621
519. Schweizer, Chr., & Soehne, Lubeck. Enamel dials. 622
520. Schweyer, C. W., Munich. Clocks. 621
521. Schweizer, J. C., Munich. Clock. 621
522. Schwer, August, Triberg. Decorated clocks. 621
523. Soefner, Hermann, Munich. Rococo clock, wall clock. 621
524. Speckhardt, Gustav, & Marfels, Carl, Moegeldorf, Frankfort-on-the-Main. Ober-Ammergau clock. 621
525. Wehrli, Emilian, Furtwangen. Wall clocks. 621
526. Werner, C., Villingen. Clocks. 621
527. Wilde, Gebr., Villingen. Clocks. 621
528. Wildenauer, F. X., Munich. Clocks. 621
529. Winterhalder & Hofmeier, Neustadt. Clocks striking quarter hours. 621
530. Woelfl, Hermann, Konstanz. Luminous dials for clocks. 622
- GROUP 100.**
531. Audiger & Meyer, Crefeld. Silks for scarfs. 630
532. Bacher & Leon, Berlin. Trimmings for cloaks and dresses. 632
533. Beysner, Arthur, & Co., Crefeld. Silk scarfs. 630
534. Corty, Edm., & Co., Crefeld. *a* Silks for dresses. 629
b Silks for scarfs. 630
535. De Greiff, M. & Co., Crefeld. Silk velvets and plush. 630
536. Ebener, Jos., & Co., Munich. Brocade and damask for upholstery. 629
537. Essrales & Hatry, Saargemund. Velvets and plush. 630
538. Huber, Emile & Co., Saargemund. Silk velvets and plush. 630
539. Koenigs, Carl, & Co., Crefeld. *a* Spun silk. 627
b Plain silks. 628
c Figured silks. 629
d Silks for scarfs. 630
540. Krahn & Gobbers, Crefeld. *a* Plain silks. 628
b Figured silks. 629
c Ribbons. 631
541. Reimann & Meyer, Elberfeld. Mat-lasse and silk. 630

DEPARTMENT H.—MANUFACTURES.

542. Reiss, Carl, Crefeld. Figured silk. 629
 543. Rudolf & Georgi, Eibenstock. Pas-
 sementerie. 632
 544. Scheibler & Co., Crefeld.
a Silk velvets and plushes. 630
b Silk velvet ribbons. 631
 545. Schoppen & ter Meer, Crefeld.
a Spun silk. 627
b Silk for parasols and umbrellas. 629
 546. Schroeder, Wm., & Co., Crefeld.
a Raw silk, tram silk, etc. 625
b Silk for scarfs and lining. 628
c Silk for dresses. 629
 547. Schubart, Emil, Eibenstock. Passe-
 menterie. 632
 548. Schwartz, R. & Co., Crefeld.
a Velvets for furniture, etc. 630
b Silk velvet ribbons. 631
 549. Troll & Uhlmann, Eibenstock. Pas-
 sementerie. 632
 550. Vom Bruck, H. Soehne, Crefeld.
a Silk velvets and plush. 630
b Ribbons. 631

GROUP 101.

551. Geisberg, Franz, Alt-Chemnitz.
 Printed fabrics. 633

GROUP 102.

552. Arno & Moritz Meister, Chemnitz.
 Cotton yarns. 638
 553. Birmes, E., Crefeld. Cotton yarns. 638
 554. Buntweberie, vorm Herm. Wuensche
 Ebersbach. Mixtures of cotton. 638
 555. Burghardt, C. E., Lauban Silesia.
 Bleached linen handkerchiefs. 639
 556. Coblenzer, Ad., Augsburg. Cotton
 yarn. 638
 557. Dick & Schreiter, Schoeneck i-V.
 Embroidered linen table cloths, towels,
 napkins, etc. 639
 558. Dierig, Christian, Oberlangenberg.
a Cotton goods. 638
b Half-linen fabrics. 639
 559. Fleischer, T., Plauen Saxony. Mus-
 lins, gauze, tarlatans. 638
 560. Fraenkel, S., Neustadt Silesia.
 Linen fabrics. 639
 561. Froehlich & Wolff, Cassel. Canvas.
 638
 562. Giehler, Johann, Chemnitz. Cotton
 goods. 638
 563. Goschenhofer & Roesecke, Berlin.
 Copy of the linen outfit of Princess Mar-
 garitha of Prussia. 639
 564. Geisberg, Franz, Alt Chemnitz.
a Printed cotton fabrics. 638
b Printed linen fabrics. 639
 565. Grosse, J. G., Kuhnwalde.
a Cotton goods. 638
b Linen textures. 639
 566. Grossmann, C. G., Grossrohrschorf.
a Cotton goods. 638
b Linen fabrics. 639
 567. Gutmann, K. & A. Munich. Linen
 table sets. 639
 568. Hirsch, Louis, Gera. Dyed and
 bleached articles. 638
 569. Kgl. Muster-Kloppschule, Schnee-
 berg-Saxony. Handkerchiefs, etc. 639
 570. Langheinrich, Georg, Schlitz-Hes-
 sia. Table cloths, napkins and towels. 639
 571. Meinhold & Sohn, Rauen i-V, Mull.
 638

572. Muehlinghaus & Wuelfing, M-Glad-
 bach. Bleached and dyed printed cotton
 goods. 638
 573. Reimann & Meyer, Elberfeld. Pique
 for vests. 638
 574. Websky, Hartmann & Wiesen,
 Wuestewaltersdorf. Table covers, towels,
 linen embroidery, etc. 639
 575. Weindler Wilk & Co., Panen, i-V.
 Handkerchiefs. 639
 576. Wuensche, F. Aug., & Co., Loeban.
 Linen. 639

GROUP 103.

577. Arnold, Freederich, Greiz. Woolen
 texture for dresses. 641
 578. Boeddinghaus, Wilhelm, & Co., Elb-
 erfeld.
a Dress goods. 641
b Trimmings, etc. 647
 579. Boessneck, Broesel, & Co., New
 York. Dress goods. 641
 580. Boessneck, Ernst, Glauchau. Dress
 goods. 641
 581. Boessneck, Otto, & Co., Glauchau.
a Novelties in dress goods. 641
b Trimmings. 647
 582. Buntweberie, vorm Hermn. Wuens-
 che, Ebersbach. Linen and woolen mixed
 goods. 644
 583. Caspar, Carl, Freiberg-Saxony.
 Woolen fancy goods. 647
 584. Caspari, J. F., Grossenhain. Woolen
 goods. 641
 585. Doerffel, C. J. Soehne, Eibenstock.
 Dress trimmings. 647
 586. Fischer, F. A., Trueen. Woolen
 goods. 641
 587. Gaebler, Theodor, Munich. Smyrna
 carpet. 649
 588. Gesberg, Franz, Alt Chemnitz.
 Mohair plush. 646
 589. Giehler, Johann, Chemnitz. Mixed
 silk and wool fabrics. 644
 590. Grimm & Albrecht, Crimmitzschau-
 Saxony. Novelties in summer cloth. 644
 591. Hempel, N., Reichenbach, i-V. Wool
 and silk goods. 644
 592. Hoenigsberger, J. C. & Co., Munich.
 Spun horse hair. 651
 593. Hopf & Merkel, Mylau i-V
a Dress goods. 641
b Shawls. 642
 594. Hupfer, Gebr., Werdau. Woolen
 goods. 641
 595. Hupfer, Rudolph, Werdau. Woolen
 texture. 641
 596. Jahn, F. A., Mylau i-V. Woolen
 textures. 641
 597. Kammgarnspinnerei Gautzsch, Gaut-
 zsch near Leipsic. Yarns. 640
 598. Kammgarnspinnerei Meerane, Meer-
 ane. Raw and colored yarns. 640
 599. Keller & Sohn, Reichenbach i-V.
a Dress goods. 641
b Cashmeres. 643
 600. Kesselkaul, J. H., Eunkel, Aachen.
 Woolen and worsted textures. 640
 601. Koch, Gebr., Lausigk. Plushes of
 mohair and wool. 646
 602. Koch & te Kock, Oelsnitz, i-V.
a Furniture fabrics, etc. 646
b Carpets, etc. 649

GERMANY.

603. Koenigsberger, T. C. & Co., Munich. Spun horse hair. 651
604. Kreutziger & Heuke, Leutersdorf. Cotton and half wool textures. 644
605. Langer, Gotthief, Reichenbrand. *a* Woolen goods. 641
b Shawls, etc. 642
606. Meinhold & Sohn, Plauen i-V. *a* Fancy wool goods. 641
b Upholstery goods. 646
607. Merkel, Moritz, Mylau, i-V. Dress goods. 641
608. Paatz, F., Berlin. *a* Traveling plaids, etc. 642
b Upholstery goods. 646
c Carpets. 649
609. Paul, D. F., Langenfeld, i-V. Plain cloth. 641
610. Paulig, Friedr., Gruenberg. Samples of wool cloth. 641
611. Pongs & Koensgen, M-Gladbach. Worsted goods. 643
612. Preivisch, C. A., Reichenau, Saxony. *a* Dress goods of wool. 641
b Wool and cotton. 644
613. Prietsch, Oskar, Kottbus. Carpets. 649
614. Reimann & Meyer, Elberfeld. Wool goods. 640
615. Roeckel & Thieme, Reichenbach-i-V. Dress goods. 641
616. Sammt, Benno & Co., Berlin. Wool and silk shawls, etc. 642
617. Schloder, Otto, Munich. Wool goods. 641
618. Schlottmann & Co., Berlin. Shawls. 642
619. Schmieder, C. F. & Co., Meerane. *a* Woolen goods. 641
b Worsted goods. 643
620. Schreiber, Gust., Dresden. Artistic trimmings. 647
621. Sountag & Loescher, Netzschkau-i-V. Cotton and wool textures. 644
622. Speisen & Co., Nuremberg. Braids, laces, fringes, etc. 647
623. Spengler, Gebr., Crimmitschau, Saxony. Worsted goods. 643
624. Stoehr & Co., Leipsic, Kleinzschocher. Worsted yarn. 640
625. Troll & Uhlmann, Eibenstock. Embroidered shawls. 642
626. Ulrich, Otto, Werdan. *a* Worsted fabrics. 640
b All wool goods. 641
627. Winkler & Sohn, Rochlitz. Woolen fabrics. 641
628. Wurzenner Teppich and Velour fabriken, Berlin. Carpets, etc. 649
629. Zschille, Gebr., Grossenhain. All wool goods. 641
635. Cohn, L., Johanngeorgenstadt, Saxony. Leather and kid gloves, etc. 657
636. Conradi & Friedemann, Limbach. Silk, wool and cotton underwear. 657
637. Doehner, A., Chemnitz, Saxony. Hosiery. 657
638. Eckhardt, Louis, Homburg v. d. Hoche. Boots, shoes, etc. 656
639. Eisenstuck, J. M., Chemnitz. Hosiery in cotton, wool, silk, etc. 657
640. Esche, Moritz, Saml., Chemnitz. All kinds of hosiery. 657
641. Faust, D., Berlin. Modern riding dresses. 653
642. Funken, Gebr., Aachen. Sewing-machine needles. 659
643. Gnauck, Eduard, Chemnitz. All kinds of glove-textures. 657
644. Gulden, Heindrich, Chemnitz. All kinds of gloves. 657
645. Hecker, Gottlieb, & Soehne, Chemnitz. All kinds of hosiery. 657
646. Herfurth, Gebrueder, Chemnitz. All kinds of hosiery and gloves. 657
647. Hillig, Louis, Oberlungwitz, Saxony. Hosiery. 657
648. Janssen, William, Chemnitz. Underwear. 657
649. Kircheisen, Friedrich, Chemnitz. Fancy hosiery and woven gloves. 657
650. Kuerth, Edmund, Geringswalde. Children's hosiery. 657
651. Kuehnert, Wachter & Neldner, Chemnitz. All kinds of hosiery. 657
652. Kummer & Oppelt, Chemnitz. Gloves and hosiery. 657
653. Liebeskind, Rudolph, Chemnitz. Gloves and hosiery. 657
654. Lindheimer, Philipp & Co. Frankfort-on-the-Main. *a* Embroidered caps. 654
b Embroidery for slippers. 656
655. Loeb, Gebrueder, Stuttgart. Underwear. 657
656. Lotz, Chr. Soehne, Kaiserslautern. Shoes with wooden soles. 656
657. Ludwig, Maier & Co., Stuttgart. Woven underwear. 657
658. Mai, L. & M., Frankfort-on-the-Main. Trimmed straw hats. 654
659. Mayser's Hutmanufaktur Aktiengesellschaft, Ulm-on-the-Danube. Collection of felt hats. 654
660. Muehlinghaus, C., Pet. Joh. Sohn, Lennep. Woven goods and underwear. 657
661. Myrow, Waldermar, Berlin. Feather hats for ladies. 654
662. Neustadt & Neumann, Breslau-Silesia. Hosiery. 657
663. Preibisch, C. A., Reichenau, Saxony. Gentlemen's outfits. 652
664. Roeckl, J., Munich. Leather gloves. 657
665. Rosenthal, A., & Co., Darmstadt. Straw hats. 654
666. Schloder, Otto, Munich. Tyrolean tourist costumes. 653
667. Schuetz, Rudolph, Herzogenrath, near Aachen. Sewing machine needles. 659
668. Seifert & Kloeber, Maila-Bavaria. Boots. 656

GROUP 104.

630. Schlottmann & Co., Berlin. Women's and children's wearing apparel. 657
631. Asch, Albert, Berlin. Leggings of horse leather, etc. 656
632. Beck, G. C., Hohenstein. Hosiery. 657
633. Bender, Paul, i. F. A. Bender, Halle-on-the-Saale. "Reform" shoes. 656
634. Bluth, Oskar, Berlin. Hats and caps. 654

DEPARTMENT H.—MANUFACTURES.

669. Staerker, Hermann, Chemnitz. All kinds of hosiery. 657
 670. Vieweg, Albert, Chemnitz. Woolen gloves and hosiery 657
 671. Vieweg, Robert, Lichtenstein, Calenberg. Silk and cotton hosiery. 657
 672. Weissbach, Felix, Glauchau. Folding hats. 654
 673. Wex & Soehne, Chemnitz. All kinds of hosiery. 657
 674. Wilke, C. G., Guben. Felt hats. 654
 675. Winzer & Wecker, Chemnitz. Hosiery. 657
 676. Woller, Fried. Chreg, Stollberg, i-Erzgebirge. Hosiery and underwear. 657
 677. Wolff & Glersefeld, Berlin. Gentlemen's linen. 658
 678. Women Nurses in Germany. Costumes. 653

GROUP 105.

679. Fischer, F., & Co., Offenbarg, Baden. Hair leggings. 662
 680. Myrow, Waldemar, Berlin. Feather boas. 662
 681. Spengler, Carl, Crimmitschau-Saxony. Buckskin clothing. 662

GROUP 106.

682. Apitzsch, Louis, Plauen i-V. Embroideries. 665
 683. Apitzsch, Otto, Dresden. Crochet work. 665
 684. Augsburg, Amalie, Dresden. Fans of swansdown. 667
 685. Beck, Ludwig, Munich. Lace work. 664
 686. Bergmann, Fritz, Plauen i-V.
 a Laces. 664
 b Embroidered curtains, etc. 555
 687. Berkling, Wilhelm, Plauen i-V.
 a Net and silk laces. 664
 b Novelties in embroideries. 665
 688. Beyer, Paul, Dresden. Silk fans. 667
 689. Bitterlich, Albert, Kaufbeuren. Artistic fan. 667
 690. Claus, Otto, Schneeberg.
 a Drawn lace. 664
 b Lace fans mounted in silver. 667
 c Drawing for bobbin work. 669
 691. Diersch & Schmidt, Eibenstock.
 a Beaded lace. 664
 b Beads, etc. 668
 692. Deisz, Ad, Munich. Linen embroideries. 665
 693. Doerffel, C. G., Soehne, Eibenstock.
 a Lace curtains and laces. 664
 b Embroideries. 665
 694. Donhauer, Ludwig, Neuenburg vorm Wald. Artificial flowers. 666
 695. Eckhardt, Albert, Berlin. Silk fans. 667
 696. Eichhorn, C. R., Plauen i-V. Laces. 684
 697. Franz & Ulrich, Plauen i-V. Curtains, etc. 664
 698. Gardinenfabrik Plauen, Aktiengesellschaft, Plauen i-V. English lace curtains. 664
 699. Gebhardt, Karl, Munich. Gobelin tapestries. 670
 700. Glöckner, Marie, Dresden. Silk fans. 667

701. Gutman, K. & A., Munich.
 a Embroidery and needlework. 669
 b Gobelin tapestry. 670
 702. Hacker, Bertha, Dresden. Fans mounted with pearl and ebony. 667
 703. Heitsch, Clara, Dresden. Fan with oil painting. 667
 704. Hempel & Schwerin, Berlin. Tapestry, etc. 671
 705. Hermann, Paul, Dresden. Fans of swansdown. 667
 706. Herold, Friedr., Schwabach, Bavaria. Needles. 668
 707. Hildebrandt, Fr. Wilh., Hosterwitz. Silk fans. 667
 708. Hirschberg, M., & Co., Eibenstock. Embroideries. 665
 709. Jahn, G. A., Plauen i-V. Hand and machine embroideries. 665
 710. Kempe, Antoine, Munich. Gobelin tapestries. 670
 711. Kgl., Muster, Kloeppelschule, Schneeberg-Saxony.
 a Laces. 664
 b Fans. 667
 712. Klein, E. O., Dresden-Altstadt. Artificial feathers and flowers. 666
 713. Klein & Klauder, Dessau. Crochet buttons. 668
 714. Klemm & Steger, Plauen i-V. Embroidered laces. 665
 715. Kretschmar, Otto, Loschwitz. Silk fan. 667
 716. Kropf, Louise, Munich. Embroidered articles. 669
 717. Krueger, C., Berlin. Specimens of embroidery, etc. 669
 718. Liebscher, Rob. W., Dresden, Saxony. Silk fans. 667
 719. Lipmann, Rich., Plauen, Saxony. Silk fans. 667
 720. Lossow, Mina, Frau, Munich. Gold and silver embroideries. 669
 721. Ludwig, Max, Eibenstock. Tulle curtains, etc. 664
 722. Mammen, F. A., & Co., Plauen i-V. Laces, curtains, etc. 664
 723. Mebert, C., Rich., Dresden. Painted fans. 667
 724. Mebert, Karl, Richard, Dresden. Gobelin tapestry. 670
 725. Mohr, Josephine, Frau, Munich. Embroidered society banner. 669
 726. Mueller, sen, Plauen i-V. Hand embroideries. 669
 727. Mueller, Woldemar, Dresden. Painted fans. 667
 728. Neubauer, Robert Nachf., Plauen i-V. Laces of cotton, wool and silk. 664
 729. Noack, Helene, Dresden. Painted fans. 667
 730. Nobis, J. H. & Tissen, Aachen. Pyramid of needles. 668
 731. Noether, Adolph, Dresden. Fans of swansdown. 667
 732. Oschatz Adam sul, Sohn, Schoenheide.
 a Laces. 664
 b Embroideries in silk, beads, etc. 665
 733. Osiander'sche Kunststickerei, Anstalt, Ravensburg. Artistic embroideries. 669
 734. Pausch & Koch, Nuremberg. Passementerie. 668

GERMANY.

735. Perty, Crescentia, Munich. Linen embroideries. 665
 736. Preissler, Paul, Dresden. Painted fans. 667
 737. Putz, Olga, Frau, Munich.
 a Laces. 664
 b Embroideries. 665
 738. Rehm, Paul, Dresden. Silk fan. 667
 739. Risler & Co., Freiburg i-B. Buttons and beads. 668
 740. Ripberger, M. C., Dresden. Artistic embroidery. 669
 741. Schels, Sophie, Munich. Embroideries. 669
 742. Schiffmann, Max Theod., Munich. Embroideries. 665
 743. Schindler, Gebr., Plauen i-V. Hadn and machine embroidery. 665
 744. Schmidt, Max, Walth, Dresden. Silk fan. 667
 745. Schneider, Rudolph, Schwarzenberg. Silk fan. 667
 746. Schrage & Roessing, Plauen i-V. Embroideries. 665
 747. Schubart, Emil, Eibenstock. Embroidered trimmings. 665
 748. Schudt, Joh. Ludwig, Leipsic. Gobelin tapestry. 670
 749. Schwanemeyer, Carl, Tserlohn. Needles, knitting needles, safety pins, etc. 668
 750. Siegel, Ludwig, Ulm-on-the-Danube. Linen embroideries. 665
 751. Speierer, Otto, Buehl-Baden. Brides' wreaths, communion wreaths, etc. 666
 752. Spring Steel M'f'g Co., Cassel. Corset steels. 668
 753. Stirl, Walther, Loschwitz. Fans of swansdown. 667
 754. Stoeffler, Wilh., Pforshiem. Fans. 667
 755. Thiemt, A., Hellendorf. All kinds of of fastenings for gloves and shoes. 668
 756. Troeger & Co., Plauen i-V. Open work embroidery. 665
 757. Van Hees, G. A., Munich. Gobelin tapestry. 670
 758. Voigt, Georg Martin, Dresden. Silk fans. 667
 759. Von Kessel-Zeutsch, Raake. Gauze and silk fans. 667
 760. Weihrach, Fraulein Louise, Munich. Embroidered covers. 665
 761. Weindler, Wilh., & Co., Plauen i-V. Silk and cotton laces. 664
 762. Weishaupt, Frau Henriette, Munich i-V. Linen embroideries. 665
 763. Wuensche, F. Aug., & Co., Laeban. Buttons. 668
 764. Zimmermann, Frau, Munich. Pin cushion. 668

GROUP 107.

765. Blaesker, Max, Berlin. Hair Ornaments. 672
 766. Flemming, Ed., & Co., Schoenheide, Saxony. Brushes of all kinds. 675
 767. Florheim, F., & Sohn, Apolda near Leipsic. Tied tufts of hair. 673
 768. Fuchs, Joh. Wolfy, Nuremberg. Wire brushes. 675
 769. Kraenslein, Emil, Erlangen. Brushes. 675

770. Kronk, Friedrich, Pforshiem. Hair ornaments. 672
 771. Mahr, Gebr., Naumberg-on-the-Saale. Combs and brushes. 675
 772. Pensberger & Co., Munich. Brushes. 675
 773. Wagner, Y., Nuremberg. Combs. 675
 774. Zerrenner, J., Pforshiem. Combs. 675

GROUP 108.

775. Attenkofer, Paul, Munich. Albums, money boxes of leather and parchment. 680
 776. Conrad, Oscar, Berlin. Cowhide traveling trunk. 679
 777. Haack, Max Adolf, Leipsic. Leather goods. 680
 778. Hahn, Kurd, Berlin. Military tent. 676
 779. Hochstaedter & Bergmann, Frankfurt-on-the-Main. Decorated leather goods. 680
 780. Huesmert & Co., Wald Rhineland. Satchel straps, plaid holders, etc. 677
 781. Hulbe, Georg, Berlin and Hamburg. Leather articles. 680
 782. Hulbe, Georg, Hamburg. Leather goods. 680
 783. Kretschmar, Wilh., Karlsruhl. Embroidered parasol. 682
 784. Ludwig & Co., Coburg. Bamboo and cane trunk. 679
 785. Ruenig, Ludwig & Co., Coburg. Trunk. 679
 786. Sonnentheil & Kloppke, Berlin. Albums and leather goods. 680
 787. Stoeffler, Wilh., Pforshiem. Purses, etc. 680
 788. Stromeier & Co., Konstanz. Military tent. 676
 789. Weinzierl, Franz Xavier, Munich. Artistic Gothic chest, etc. 680

GROUP 109.

790. Bender, Paul, i. F. A. Bender, Halle-on-the-Saale. Elastic and water-proof shoes. 683
 791. M. Helaher, Ad., Duesseldorf. Celluloid. 683
 792. Papierfabrik Sondern, Sondern i-W. Celluloid. 683
 793. Metzeler & Co., Munich. Balls for atomizers. 686
 794. Peinn, Phil., Leipsic-Plagwitz. Surgical articles, etc., of rubber. 687
 795. Ploehn, R., Radellbuel-Dresden. Rubber goods, etc. 687
 796. Sachs, Conrad, Eppstein i-Tanus. Celluloid powder boxes. 686
 797. Schwanitz, Carl, Berlin. Fire hose, belting, etc. 689
 798. Steinbach & Co., Malmedy-Prussia. Celluloid. 689
 799. Wickel, H., Halle-on-the-Saale. Celluloid massage articles, etc. 687

GROUP 110.

800. Alt & Koch, Ohrdrufi-Th. Toys. 693
 801. Arnold, M. Oscar, Neustadt near Koburg. Dolls, etc. 693
 802. Baum, G., & Co., Berlin. Photograph albums. 695

DEPARTMENT H.—MANUFACTURES.

803. Bayerisches, Gerverbemuseum, Nuremberg. Nuremberg toys. 693
804. Alt, Beck & Gottschalk, Nauendorf i-Th. Toys and dolls. 693
805. Betzler, Daniel, Aalen-Wurtemberg. Artistic case. 695
806. Brahme, J. R., Nieder-Schoenhausen. House mottoes. 695
807. Braun & Schneider, Munich. Munich toy pictures. 693
808. Craemer & Héron, Sonneberg. Dolls and toys. 693
809. Dammhorn, Max, Nuremberg. Musical and other toys. 693
810. Dressel, Cuno & Otto, Nuremberg. Dolls, toys, etc. 693
811. Dressel, Wihl., Nuremberg. Dolls and toys. 693
812. Fleischmann A. & Craemer, Nuremberg. Toys, dolls, etc. 693
813. Fleischmann, Ed & Soehne, Sonneberg. Dolls and toys. 693
814. Fleischmann, Gebr., Sonneberg. Dolls and toys. 693
815. Gerlach, F. W., Naumburg a-S. Toys of tin. 693
816. Geyer, Carl & Co., Sonneberg. Dolls. 693
817. Greiner, Otto, Poerswick, Saxony, Meiningen. Artistic casket. 695
818. Gripmann, Karl, Mannheim. Carved money chest. 695
819. Gutgesell, Max, Gotha. Toys. 693
820. Haack, Max, Adolf, Leipsic. Magic apparatus, etc. 693
821. Handwerck, Heinrich, Waltershausen i-Th. Jointed dolls. 693
822. Harrass, B., Boehlen i-Th. and Berlin. Wooden toys, etc. 693
823. Heinrich, Gebr., Fuerth. Toy figures. 693
824. Hess, Math., Nuremberg. Toys of tin. 693
825. Himmelreich, Joh., Munich. Artistic case. 695
826. Hochmeister, Hermann, Sonneberg. Dolls and toys. 693
827. Hoffmann, August, Hanau. Jewel cases. 695
828. Horn, Heinrich, Sonneberg. Dolls. 693
829. Kaemmer & Reinhardt, Waltershausen i-Th. Dolls and toys. 693
830. Kauzmann, Gebr., Geislingen a-H. Toys. 693
831. Kestner, T. D., jun., Waltershausen i-Th. Dolls. 693
832. Krauth, Daniel, sen., Munich. Artistic case of walnut wood. 695
833. Lindner, Louis, & Soehne, Sonneberg. Dolls and toys. 693
834. Lindner, Joh. Chr., Sonneberg. Toys, ornaments for dolls, etc. 693
835. Luge, A., & Co., Sonneberg. Dolls and toys. 693
836. Luge, Ferdinand, Sonneberg. Dolls, toys, etc. 693
837. Peter, L. J., Mannheim. Two artistic cases. 695
838. Pilz, W. K., Freiberg, Saxony. Ornaments for Christmas trees. 693
839. Plank, Ernst, Nuremberg. Optical and mechanical toys. 693
840. Porcellanfabrik Limbach, Limbach, near Sonneberg. Dolls and toys. 693
841. Reutlinger, M., & Co., Karlsruhe. Two artistic cases. 695
842. Riesemann, Seb., Munich. Artistic case. 695
843. Rueckert & Co., Steinach. Dolls and toys. 693
844. Samhammer, Philipp, Sonneberg. Dolls and doll bodies. 693
845. Schaupp, Bernh., Karlsruhe. Jewel box. 695
846. Schilling, F. M., Sonneberg. Dolls and dolls' heads. 693
847. Schillitz, Carl, Frankfort-on-the-Main. Electrical toys. 693
848. Schmidt, Oscar, Sonneberg. Dolls toys. 693
849. Schoenner, Jean, Nuremberg. Mechanical and optical toys. 693
850. Schuetzmeister & Quendt, Gotha. Dolls and dolls' heads. 693
851. Siegfried, A., Guestrow i-Mecklenburg. Two carved cases. 695
852. Thaeter, Jean, Nuremberg. Optical and mechanical toys. 693
853. Treuter, Oscar, Sonneberg. Dolls. 693
854. Wiesenthal, Schindel & Kallenberg, Waltershausen i-Th. Dolls and toys. 693
855. Wittzack, Emil, Gotha. Dolls and toys. 693

GROUP 111.

856. Berger, Heinrich, Ostritz-Saxony. Laquered cow and horse hides. 699
857. Bruederlein, Emil, Poessneck. Lacquered cow, sheep and calf leather. 699
858. Bruening, H. W., Neumuenster-Holstein. Horse leather. 700
859. Caprano, Heinrich, Charlottenberg. a Sheep skins. 697
b Curried goat skins. 698
860. Cohn, L., Johannegeorgenstadt-Saxony. Tanned and dyed leather. 697
861. Fischer, F., & Co., Offenburg-Baden. Hair calf skins. 696
862. Gehrken, C. Otto, Hamburg. Leather belting. 704
863. Glacélederfabrik Muehlburg, vorm R. Ellstaetter, Muehlburg. Glove leather. 702
864. Hannke, Friedr., jun., Berlin. Leather belting. 704
865. Hartwig, Gebrueder, Offenbach-on-the-Main. Leather decorations. 705
866. Heilbrunn, K. Soehne, Berlin. Drum and banjo skins, parchment. 703
867. Heil, J., Wandsbek near Hamburg. a Leather for saddles. 697
b Leather for purses. 699
868. Jacobsen, Adolph, Berlin. Horse leather. 697
869. Niedersheinische Aktiengesellschaft fuer Lederfabrikation, vorm Z. Spier, Vickrath-Rhine-Province. Dyed and split leather. 697
870. Perlinger, August, Fuerth-Bavaria. Leather. 697
871. Schmidt, F. L., Eckernfoerde. Curried horse leather. 698
872. Simon, Wilh., Kirn-on-the-Nahe. Leather. 697
873. Voelker, Julius, Eisenberg-Saxony, Alkenburg. Horse leather. 697

GERMANY.

874. Waeldin, Huber, Lahr-Baden.
Colored and black morocco. 699
875. Weithase, R., & Co., Poessneck.
Lacquered sheep skins. 697
876. Wildbrett, Carl, Augsburg. Parchment. 703
877. Wuelknitz, Louis, Kirchheim. Nieder-Lausitz. Sheep skin. 696
878. Zach, Georg, Weichs, near Regensburg. Split cow-hide in natural color. 697
879. Zix, Louis, & Soehne, Nachf von Rich & Aug. Korn, Saarbruecken.
a Tanned leather. 697
b Leather belting. 704

GROUP 112.

880. Betting, C. F., Wahlheiden, near Cassel. Two chemical scales (for analysis). 709
881. Herzberg, A. T., & Kuhlmann, W. vorm, Paul Runge, Hamburg.
a Commercial scales. 706
b Chemists' scales. 709
882. Kloenne, Aug., Dortmund. Gasometer model, etc. 711
883. Lux, Friedr., Ludwigshafen-on-the Rhine. Regulators. 711
884. Schenk, Carl, Darmstadt. Automatic impression scale. 706

GROUP 113.

885. Distrikt Schnitz und Zeichenschule, Partenkirchen. Carved gunholder. 718
886. Eisenwerk, Gaggenau, Aktiengesellschaft, Gaggenau, Baden. 714
887. Ehui, Geo., Stuttgart. Sword. 717
888. Krupp, Friedr., Essen. Ordnance and projectiles. 716
889. Polte Armaturenfabrik, Magdeburg-Sudenburg. Cartridge shells for ordnance. 714
890. Ratti, Aug., Sierenz-Alsace. Gun stocks. 714

GROUP 114.

891. Aktiengesellschaft fuer Fabrikation von Bronzewaaren & Zinkguss, Berlin.
a Lamps. 719
b Chandeliers, etc. 721
892. Distrikt, Schnitz & Zeichenschule, Partenkirchen. Carved lustres. 721
893. Eisenwerke, Gaggenau, Aktiengesellschaft, Gaggenau-Baden. Gas fixtures. 721
894. Jacoby, Eduard, Berlin. Illuminating fixtures. 721
895. Kirsch, Reinhold, Munich.
a Lantern. 720
b Lustre. 721
896. Krohne, Emil, Berlin. Chandelier. 719
897. Landsberg & Ollendorf, Frankfurt-on-the-Main. Fireproof lamp chimneys. 712
898. Neumayer, Theodor, Munich. Alluminum reflectors. 720
899. Rakenius, Karl & Co., Berlin. Lamps. 719
900. Roeckert, Carl, Dessau. Candelabra, etc. 721
901. Schmodt, Robert & Co., Munich.
a Lamps. 719
b Chandeliers. 721
902. Seifert, K. M., Dresden-Wurzen. Chandeliers, etc. 721

903. Steger, Karl, Munich. Carved chandeliers. 721
904. Stoettner, Jean, Nuremberg. Lustre. 721
905. Von Schwarz, T., Nuremberg. Steatite burner. 719
906. Weber, Adam & Co., Nuremberg. Steatite gas burners. 721
907. Westphal, Gustav, Berlin. Lantern. 720
908. Wild & Wessel, Berlin. Artistic lamps. 719

GROUP 115.

909. Barth, Conrad & Co., Munich. Fire place. 724
910. Becker & Ulmann, Berlin. Hot water apparatus. 726
911. Grove, David, Berlin. Movable oven. 727
912. Herzberg & Co., Cologne. Alcohol gas stoves. 728
913. Koerting, Bros., Koertingshof, Hannover. Models and drawings of radiators. 726
914. Kohn, Elias, Wasserbruedingen, Bavaria. Tile stove. 727
915. Koloseus, H., Aschaffenburg. Iron, enamel, porcelain and majolica ranges. 727
916. Landsberg & Ollendorf, Frankfurt-on-the-Main. Mica for stoves. 727
917. Lang, C. W., Nuremberg. Forged iron ranges. 727
918. Menne, Josef, Munderkingten a-D. Brushes, brooms, etc. 730
919. Puck & Co., Hamburg. Cloth rack. 730
920. Schmidt, Theobald, Berlin. Household implements. 730
921. Schoenner, Jean, Nuremberg. Household goods of twisted brass, copper, etc. 730
922. Werner & Pfeiderer, Cannstadt. Steam oven. 726
923. Wessely, A. H., Hamburg. Fire place, chimney stoves. 724

GROUP 116.

924. Bing, Gebrueder, Nuremberg. Tinware. 733
925. Creutz, N., Aachen. Cast hollowware. 733
926. Lichtinger, Joseph, Munich. Pewterware. 733
927. Lichtinger, L., Munich. Tinware. 733
928. Naglo, Gebr, Berlin. Sign and drawings. 734
929. Oberschlesische Eisenindustrie, Akt., Gesellschaft fuer Bergbau und Huettenebetrieb, Gleiwitz. Enameled and tinned ware. 734
930. Schreiner, Anton, Mabburg, Bavaria. Artistic tinware. 733
931. Thiel; Carl, & Soehne, Luebeck. Enameled and tinned ware. 734
932. Wuppermann & Co., Amberg, Bavaria. Stamped and enameled tinware. 734

GROUP 117.

933. Speiser & Co., Nuremberg. Wire goods. 734

DEPARTMENT H.—MANUFACTURES.

GROUP 118.

934. Armbruester, Gebrueder, Frankfort-on-the-Main.
a Artistic forgings. 743
b Forged iron portal. 744
935. Arnstein & Martin, Berlin. Horse-shoes, etc. 746
936. Blume, R., Berlin.
a Artistic forgings. 743
b Metal ornaments. 744
937. Brechenmacher, Franz, Frankfort-on-the-Main. Forged park gates. 743
938. Buehler, F. & Sohn, Offenburg i-Baden. Modern forge work. 743
939. Eisenwerk, Joly, Wittenberg, Wittenberg. Stairway of forged iron. 745
940. Gute Hoffnungshuette, Oberhausen. Iron construction for Krupp's Pavilion. 745
941. Hammerau, Val., Frankfort-on-the-Main. Ornaments for gates and railings. 744
942. Kayser, Ferd., Leipsic. Forged iron tables and flower basket. 743
943. Kirsch, Reinhold, Munich. Railing, etc. 743
944. Koeckert, Carl, Dessau. Artistic forgings. 743
945. Koelbe, Peter, Sohn, Munich. Artistic forgings. 743
946. Kronklauer, Jos., Munich. Forged iron door knobs, etc. 743
947. Liebig, Peter, Munich. Forged railings. 743
948. Mannstaedt, L., & Co., Kalk, near Cologne. Railings of fancy iron. 743
949. Puls, Ed., Berlin. Artistic forgings, etc. 743
950. Rheinisches Kunstschmiedewerk, Gebr. Lipgens, Dusseldorf. Balcony and stairway railing. 743
951. Schmidt, Robert, & Co., Munich. Forged iron hinges, tea-stand. 743
952. Stumpf, Gottfried, Munich. Artistic forgings. 743
953. Iron Works "Gaggenau," Gaggenau-Baden. Signs for Krupp's pavilion. 744

954. Iron Works, Lauchhammer. Busts, relieve portraits, ornaments, etc. 744
955. Weis, Carl, Kaiserslautern. Artistic forgings. 743

GROUP 119.

956. Bahr, A. Nachf, Lichtenstein-Saxony, Paper file holders. 750
957. Brahm, Friedrich, Fuerth. Metal ornaments. 747
958. Eberle, J. N., & Co., Augsburg. Saws, files, etc. 750
959. Goetz & Co., Stuttgart. Money boxes, safes, vaults. 752
960. Hemkels, J. A., Solingen. Steel ware. 749
961. Hessenbruch & Co., Ronsdorf. Razors. 751
962. Meyer, Focke & Co., Radeberg, Saxony. Patent files. 750
963. Ostertag, J., Aalen, Wurtemberg. Vaults with appurtenances. 752
964. Schillitz, Karl, Frankfort-on-the-Main. Artisans' tools, etc. 752
965. Schubert & Werth, Berlin. Safety locks. 747
966. Spring Steel M'f'g Co., Cassel. Lignum saws. 750
967. Wellmann, Altona. Knives. 751
968. Werner, Adolf Fr., Schmalkalden. Tongues. 747
969. Zettner, Gebr., Amberg, Bavaria. Rasps and files. 750

GROUP 121.

970. Lahmann, E. G., & Co., Leipsic, Gohlis. Billiard markers.
971. Oslander'sche Kunstostrekerei Anstalt, Ravensburg. Flags.
972. Schleiffer, Friedr., Strassburg, Alsace. Billiards, billiard case and cue stand.
973. Schupp & Nierth, Dresden. Cigar boxes.
974. Sedlmayr, Robert, Munich. Tool case.
975. Werner, Frz. P., Munich. Flags.

GREAT BRITAIN.

GROUP 87.

1. Alexander, James, & Co., Ltd., London. Soaps, cosmetics and perfumery. 549
2. Allen, Stafford, & Sons, London. Expressed and essential oils. 549
3. Atkinson, J. & E., London. Perfumery and toilet preparations. 549
4. Bigg, Thomas, London. Sheep-dipping compositions. 544
5. Bishop, Alfred, & Sons, Ltd., London. Effervescent preparations. 547
6. Bradford Coffee Tavern Company, Ltd., Bradford. Essences. Dept. A 549

7. Brunner, Mond & Co., Ltd., Norwich. Pure alkali; soda; ammonia; bleaching powder. 544
8. Burroughs, Wellcome & Co., London. Medicine chests and cases; pharmaceutical preparations. 547
 For exhibit see page 682.
9. Calvert, F. C., & Co., Manchester.
a Carbolic acid; sanitary and pharmaceutical preparations. 547
b Soaps and toilet preparations. 549
10. Christy, Thomas, & Co., London. Kola and other pharmaceutical preparations. 547
11. Crown Perfumery Company, London. Perfumery and toilet requisites. 549

GREAT BRITAIN.

12. Cyona Company, Ltd., London. Cyona Veterinary Tincture. (Dept. A.) 547
13. Doulton & Co., London. Stoneware vessels and apparatus for chemical purposes. Dept. F 548
14. Ellison, Henry, Jr., Cleckheaton.
 - a Carboline and carbolic acid. 547
 - b Automatic disinfecter. 548
 - c Fluid powder and soap. 549
15. Foote, J., & Son, London. Toilet accessories. 549
16. Gosnell, J., & Co., London. Toilet powder and soap, tooth paste and perfumery. 549
17. Hindes, Ltd., London. Toilet Requisites. 549
18. Idris & Co., London. Essences. Dept. A 549
19. Jackson, Thomas, Manchester. Cachaoux. 549
20. Lever Bros., Ltd., Port Sunlight. Soaps and glycerine. 549
21. Mouilla Potash Liquid Soap Company, Ltd., London. Toilet soap. 549
22. Ness & Company, Darlington.
 - a Disinfecting fluids. 547
 - b Powders and soaps. 549
23. Newball & Mason, Nottingham.
 - a Dried herbs. 547
 - b Beer extracts. 547
24. Oppenheimer, Son & Co., Ltd., London. Pharmaceutical preparations. 547
25. Pain, James, & Sons, London. Fireworks, ship signals and illuminations. 551
26. Patent Borax Company, Ladywood. Washing, cleaning and purifying preparations. 544
27. Pears, A. & F., Ltd., London. Toilet soap. 549
28. Quibell Bros., Newark-on-Trent.
 - a Sheep-dips and disinfectants. 547
 - b Soaps. 549
29. Ransom, W., & Son, London.
 - a Dried herbs. 547
 - b Pharmaceutical extracts, essential oils, etc. 549
30. Smith, T. & H., & Co., London. Chemical products of a pharmaceutical nature. 547
31. Sprules, Sarah, Wallington. Essential oils, lavender water, essences and perfumes. 549
32. Stevenson & Howell, London. Essential oils, essences and perfumes. 549
33. United Alkali Company, Ltd., Liverpool. Bleaching powder, salts, ammonia, etc. 544
34. Usher, Richard, Banbury. Medicinal herbs and pharmaceutical extracts. 547
35. Zeno & Co., London. Perfumery, extracts, toilet soaps and powders, etc. 549

GROUP 88.

36. Arnold, P. & J., London. Ink. 552
37. Berger & Sons, Ltd., Lewis, London. Dry colors, oil and spirit varnishes. 552
38. Dales, John T., London. Dublin. 552
39. Day & Martin, London. Boot and harness blacking, furniture polish, etc. 552
40. Duckett, J. B., & Co., Heeley. Writing inks and powders. 552

41. Harrison & Son, Hanley. Colors, glazes and enamels. 552
42. Hickisson, J., London. Ink. 552
43. Madderton & Co., Loughton. Colors and artists' materials. 555
44. McCaw, Stevenson & Orr, Belfast, Ireland. Substitute for stained glass. 554
45. Nixey, W. G., London. Stove polish. 552
46. Suter, Hartmann & Rahtjen's Composition Co., Ltd., London. Paints for metal structures. Dept. G 554
47. Weeks, J. W., & Son, Liverpool. Composition for painting heated surfaces. Dept. G 554
48. Winsor & Newton, Ltd., London.
 - a Printing inks. 552
 - b Artists' colors and materials. 555

GROUP 89.

49. Arnold, P. & J., London. Mucilage and sealing wax. 564
 50. Cleghorn, William, Jr., Dundee, Scotland.
 - a Paper stock. 556
 - b Felts. 557
 51. Cotterell Bros., Bristol. Art paper hangings and decorative materials. 563
 52. Ford, T. B., Loudwater. Blotting paper and raw materials. 560
 53. Gestetner, D., London. Duplicating apparatus. 564
 54. Gillott, Joseph, & Sons, Birmingham. Pens. 564
 55. Hickisson, J., London. Marking apparatus, pens, etc. 564
 56. Jeffrey & Co., London. Wall papers and decorations. 563
 57. Knowles, Chas., & Co., London. Wall and ceiling papers. 563
 58. Maskelyne, J. N., & Son, London. Typewriters. Gal. 564
 59. Mynesbrugge, Mary P., Leytonstone. Typewriter. Gal. 564
 60. Ward, Marcus, & Co., Ltd., London.
 - a Sunday-school reward cards, calendars, etc. 557
 - b Writing papers and envelopes. 560
 61. Woollams, Wm., & Co., London. Wall and ceiling papers. 563
- For exhibit see page 1010.

GROUP 90.

62. Arup Bros., London. Interior decorations. 572
63. Burroughs & Watts, Ltd., London. Billiard table. 566
64. Collinson & Lock, London. Dining and bed room hangings and furniture. 572
65. Davis, W. H., & Co., Birmingham. Brass and iron bedsteads. 567
66. Elliott, James, London. Decorative hangings and furniture. 572
67. Gregory & Co., London. Sideboard, table, chairs, settee and decorations. 567
68. Hampton & Sons, London. Reproduction in carved oak, of the banqueting hall of Hatfield House, the seat of the Marquis of Salisbury. 572
69. Hoskins & Sewell, Birmingham. Metallic bedsteads. 567
70. Johnstone, Norman & Co., London.
 - a Diningtable. 566
 - b Carved panels. 571

DEPARTMENT H.—MANUFACTURES.

71. London Fabric Printing Company, London. Printed reboots and cretonnes. 568
72. Macbeth, Isaac, Wirksworth. Furniture. 567
73. Peyton & Peyton, Birmingham. Brass and iron bedsteads. 567
74. Roberts, Geo., Sheffield. Furniture. 567
75. Winsfields, Ltd., Birmingham. Brass bedsteads, cot and lectern. 567
76. Wright, Geo., & Co., London. Billiard table and fittings. 566

GROUP 91.

77. Ault, William, Burton-on-Trent. Artistic pottery. 575
78. Brown-Westhead, Moore & Co., Cauldon Place. China and earthenware. 576
79. Coalport China Company, Ltd., Coalport. China. 576
80. Daniell, A. B., & Sons, London. Porcelain and earthenware. 576
81. Doulton & Co., London.
a Stoneware and ceramic wall decorations, Doulton ware. 575
b China and earthenware. 576
82. Gibson & Sons, Burslem. Rockingham ware. 576
83. Godwin & Hewitt, Hereford. Tiles. 578
84. Grainger, George, & Co., Worcester. Porcelain and other wares. 577
85. Irish Portland Cement & Brick Co., Ltd., Dublin. Earthenware. Dept. E 576
86. Maw & Co., Ltd., Jackfield. Tiles, mosaics and architectural faience pottery. 578
87. Knowles, Henry, London. Gas, water and sewer pipes. Dept. F 574
88. Moore Bros., Longton. China ware and pâte-sur-pâte decorations. 576
89. Peake, Thomas, Tunstall. Bricks and tiles. 578
90. Worcester Royal Porcelain Company, Ltd., Worcester.
a Tea, breakfast and dessert services in china. 576
b Porcelain articles. 577

GROUP 92.

91. Flynn, Thomas, M. H., & Co., Bessbrook, Ireland. Granite monuments, borders and crosses. 581
92. O'Neill, P. J., & Co., Dublin. Font of Irish marble, statue of the Redeemer, Celtic cross in Donegal sandstone. Dept. E 581
93. Pettigru, Thomas, Navan. Celtic cross, monuments and pedestals. 581

GROUP 93.

94. Doig, William, & Co., London. Bronze replicas of Robert Burns' statue in Ayre, "Prodigious" in bronze, Jubilee Celebration in Abbey (1877). 585
95. Johnson, Edmond, Dublin. Fac simile copies of crosses, croziers and shrines from Royal Irish Academy and Trinity College. 585

GROUP 94.

96. Cannington, Shaw & Co., St. Helena. Glass bottles. 590
97. Hartley & Co., Ltd., Sunderland. Glassware. 591

GROUP 95.

98. Hardman & Co., London. Pictorial paintings on glass, ecclesiastical art. (Window) 597
99. Holiday, Henry, London. Stained glass window representing the Nativity, with the adoration of the magi and shepherds and the choir of angels. 597
100. Pace, Ion, London. Stained glass windows and designs. 596
101. Winfields, Ltd., London.
a Screen of stained glass, domestic and civic stained glass. 596
b Ecclesiastical stained glass windows. 597

GROUP 96.

102. Hems & Sons, Harry, Exeter. Carved church furniture and photographs illustrative of carved work. 598

GROUP 97.

103. Gibson & Co., Ltd., Belfast. Plate. 605
104. Goldsmiths' & Silversmiths' Co., London.
a Plate, dessert and toilet services, tea and coffee sets, trays, etc. 605
b Dressing bags. 607
105. Johnson, Edmond, Dublin. Antique Irish silver articles. 607
106. Mappin Bros., London.
a Silverware. 605
b Cutlery. 606
c Dressing and traveling bags. 607
d Electro-plated ware. 609
107. Wells, John, London. Silver plate and historical articles. 605

GROUP 98.

108. Gibson & Co., Ltd., Belfast. Jewelry. 612
109. Gibson & Sons, Burslem. Jet goods. 614
110. Goldsmiths' & Silversmiths' Co., London. Jewelry and gem ornaments. 613
111. Laird, Misses G. & S., Dublin. Connemara and bog oak jewelry. 614
112. Neilson, Shaw & Macgregor, Glasgow, Scotland. Scottish jewelry and ornaments. 612

GROUP 99.

113. Goldsmiths' & Silversmiths' Co., London.
a Watches. 617
b Clocks. 621
114. Smith, John, & Sons, London.
a Watches. 617
b Clocks and time bells. 621

GROUP 100.

115. Bartrum, Harvey & Co., London. Silks and vestings. 627

GREAT BRITAIN.

116. Behrens, Jacob & Sons, Manchester. Silk fabrics. 627
117. Clayton, Murgatroyd & Co., Ltd., Halifax. Spun silk yarns. 627
118. Collinson & Lock, London.
a Gold and silver tissues. 628
b Silks, damasks, brocades and broc-
 atelles. 629
c Velvets and embroideries. 630
119. Courtauld, Samuel, & Co., Ltd., Lon-
 don. Silk crapes, silk gauzes, silk fabrics
 and costumes of same. 630
120. Fry & Co., Dublin.
a Silk taborets, lute-strings and pop-
 lin damasks. 628
b Carriage laces and trimmings. 632
121. Grant, W. H., & Co., Coventry.
a Raw silks. 625
b Dyed silks. 626
c Suspenders, garters and handker-
 chiefs. 630
d Silk trimmings. 632
122. Grout & Co., London. Silk crapes,
 crepons, mousseline de soie, grenadines,
 etc. 630
123. Hinde, Francis, & Sons, London. Silk
 crapes. 630
124. Neilson, Shaw & Macgregor, Glas-
 gow, Scotland. Tartan silks and velvets;
 scarfs, sashes, ribbons, etc. 630
125. Priestley, B., & Co., Idle.
a Silk dress goods. 629
b Veils and veilings. 630
126. Scottish Home Industries Associa-
 tion, London. Silk goods and embroider-
 ies. 628

GROUP 101.

127. Barry, Ostlere & Co., Ltd., Kirk-
 caldy, Scotland. Oil cloths, sanitary lin-
 oleums and cork carpets. 636
128. Cleghorn, William, Jr., Dundee,
 Scotland. Jute cloth and yarns. 633

GROUP 102.

129. Barbour, William, & Sons, Ltd., Lis-
 burn, Ireland. Linen and flax threads. 639
130. Barlow & Jones, Ltd., Manchester.
 Cotton fabrics. 638
131. Bartrum, Harvey & Co., London.
a Cotton goods. 638
b Linen goods. 639
132. Behrens, Jacob, & Sons, Manchester.
 Cotton yarns. 638
133. Brookfield Linen Company, Ltd.,
 Belfast. Linen fabrics. 639
134. Brown, John S., & Sons, Belfast.
a Sheetings. 638
b Household linen and handkerchiefs. 639
135. Brown, John, & Son, Glasgow. Mus-
 lins. 638
136. Cash, J. & J., Coventry. Bath tow-
 els and gloves. 638
137. Crippin, William & Young, George,
 Manchester. Cotton yarn. 638
138. Fenton, Connor & Co., Belfast.
a Cotton fabrics. 638
b Linen fabrics. 639

139. Ferguson Bros., London. Cotton
 linings and shirtings. 638
140. Finlayson, Bousfield & Co., John-
 stone, Scotland. Linen threads and
 twines. 639
141. Fox, Charles, & Co., London.
a Sheetings. 638
b Damasks, toweling, huckabacks,
 glass cloths, etc. 639
142. King, ohn, & Son, Glasgow. Scotch
 window Hollands. 639
143. Liddell, William, & Co., London.
 Linen damasks, table cloths, napkins,
 towels, sheetings and shirtings. 639
144. Matier, Henry, & Co., Belfast, Ire-
 land. Handkerchiefs, napkins and linen
 damask. 639
145. Old Bleach Linen Company, Randals-
 town. Towels, damasks and other linens. 639
146. Richardson, J. N., Sons, & Owden,
 Ltd., Belfast. Linen, sheetings, handker-
 chiefs, toweling, etc. 639
147. Robertson, Ledlie, Ferguson & Co.,
 Ltd., Belfast. Table damask. 639
148. Swainson, Birley & Co., London.
 Cotton dress goods and sheetings. 638
149. Turnbull & Stockdale, Manchester.
 Crêtonnes and velveteens. 638

GROUP 103.

150. Apperley, Curtis & Co., Stroud.
a Woolen goods. 641
b Coatings, cassimeres, cheviots and
 serges. 643
151. Athlone Woolen Mills Company, Ath-
 lone, Ireland. Worsted goods. 643
152. Bartrum, Harvey & Co., London.
a Woolen goods. 641
b Worsted goods. 643
153. Behrens, Jacob, & Sons, Manchester.
 Woolen fabrics. 640
154. Bontor, Thomas, & Co., London.
 Carpets, parqueterie. 649
155. Cameron-Maclachlan, Dugald, Oban,
 Scotland. Clan tartans. 641
156. Carr, Isaac, & Co., Bath.
a Woolen cloths. 641
b Worsted cloths. 643
157. Cleghorn, William Jr., Dundee,
 Scotland. Wool waste. 640
158. Crippin, William, & Young, George,
 Manchester. Woolen yarns. 640
159. Dormeuil Freres, London. Woolens
 and linings. 641
160. Fison, William, & Co., Burley-in-
 Wharfedale.
a Shawls. 642
b Wool serges and coatings. 643
c Cheviots. 644
161. Hooper, Charles, & Co., Stonehouse,
 Woolen goods for men's wear. 641
162. Irish Woolen Manufacturing & Ex-
 port Co., Ltd., Dublin. Woolen goods. 641
163. Macnaughton, A. & J., Pitlochry,
 Scotland. Scotch tweeds and homespun. 644
164. Marling & Co., Ltd., Stroud.
a Woolen goods. 641
b Worsted goods. 643

DEPARTMENT H.—MANUFACTURES.

165. Neilson, Shaw & Macgregor, Glasgow, Scotland.
a Clan tartan fabrics for men and women. 641
b Tweeds, traveling plaids, rugs, etc. 642
c Curtains, hearth rugs, carpets, etc. 649
166. Pocock, T. P., & Co., Chippenham. Worsted coatings. 643
167. Priestley, B., & Co., Idle.
a Dress fabrics and cloakings. 641
b Shawls. 642
168. Scottish Home Industries Association, London. Woolen stuffs, and Shetland woolen goods. 641
169. Smith, Turberville, & Son, London. Axminster carpets. 649
170. Stephen, A. F., Huntley.
a Traveling rugs, etc. 642
b Tweeds, clan tartans, etc. 644
171. Thomson, William, & Sons, Ltd. Huddersfield.
a Woolen cloths. 541
b Worsted cloths. 643
172. Ward & Taylor, Bradford-on-Avon. Tweeds, trouserings, suitings, etc. 644
173. Yates & Co., Ltd., Wilton. Axminster carpets. 649

GROUP 104.

174. Cartwright & Warners, Ltd., Loughborough. Gentlemen's, ladies' and children's underwear. 657
175. Cooksey & Co., London. Hats. 654
176. Holden Bros., London. Boots and shoes. 656
177. Hummel, E. & H., & Co., London.
a Hosiery, etc. 657
b Shirts. 658
178. Irish Industries Association, London. Hosiery and underclothing. 657
179. Irish Woolen Manufacturing & Export Co., Ltd., Dublin. Ready made clothing. 652
180. Lincoln, Bennett & Co., London. Hats and helmets. 654
181. Lewis, William, & Sons, London.
a Underwear, hosiery, silk stockings made for King George IV. 657
b Cravats, shirts and collars. 658
 For exhibit see page 681.
182. Lobb, John, London. Boots and shoes. 656
183. Macqueen & Co., London. Hats and helmets. 654
184. Martin, F. J., & Co., London. Gloves and clasps. 657
185. Morley, W., & n. Gar-terless hose. 657
186. Neilson, Shaw & Macgregor, Glasgow, Scotland. Hosiery. 657
187. Ormes, Upsdale & Co., London. Gloves mitts and gauntlets. 657
188. Reily, Kate, London. Ladies' costumes and court trains. 653
189. Shingleton, William, London. Safety riding habit. 653
190. Smyth & Co., Ltd., London. Hosiery. 657
191. Walker, R., & Sons, Leicester. Woolen underclothing and hosiery. 657

GROUP 106.

192. Benton & Johnson, London. Gold and silver laces, etc. 664
193. Cash, J. & J., Coventry. Insertions and embroideries. 665
194. Harper, Thomas, Redditch. Needles and pins, surgeons' needles, etc. 668
195. Irish Industries Association, London.
a Silk and linen laces. 664
b Embroideries. 665
196. Laird, Misses G. & S., Dublin.
a Irish lace. 664
b Fans. 667
197. Milward, Henry, & Sons, Ltd., Redditch. Needles. 668
198. Muddiman, T. H. & J., London. Trimmings. 668
199. National Lace Company, Nottingham. Laces and curtains. 664
200. Peach, Samuel, & Sons, Nottingham. Nottingham lace curtains. 664
201. Turner, R., & Sons, Redditch. Pins, needles and hairpins; needlecases. 668

GROUP 107.

202. Hindes, Ltd., London. Brushes. 675
203. Stewart, S. R., & Co., Aberdeen. Combs. 675

GROUP 108.

204. Bryant, Robert, London. Gun cases, pouches, etc. 677
205. Swaine & Adeney, London. Dept. G
a Hunting flasks and sandwich cases. 676
b Walking sticks and canes. 681
206. White, William, & Son, Glasgow. Tobacco pipes. 680

GROUP 109.

207. Anderson, Anderson & Anderson, London. Waterproofs. 683
208. Cravenette Company, Ltd., Bradford. Waterproof cloths. 692
209. Fison, William & Co., Burley-in-Wharfedale. Waterproof goods. 683
210. Zacharias, J., & Co., Oxford. Waterproof garments. 683

GROUP 110.

211. Stewart, S. R., & Co., Aberdeen. Cups, shoe horns, paper cutters, etc. 695

GROUP 111.

212. Jeffrey & Co., London. Embossed leather papers and portieres. 705
213. Woollams, Wm. & Co., London. Embossed leather. 705

GROUP 112.

214. Macfarlane, Strang & Co., Ltd. London. Water meters. Dept. F 711

GROUP 113.

215. Curtis & Harvey, London. Gunpowder. 714
216. Eley Bros., Ltd., London. Ammunition. 714
217. Greener, W. W., Birmingham. Sporting guns. 718
218. Joyce, F. & Co., Ltd., London. Ammunition. 714

GREAT BRITAIN.

219. Lancaster, Charles, London.
a Military pistols. 714
b Sporting rifles and guns. 718
 220. Scott, W., & C., & Son, Birmingham.
 Sporting guns. 718

GROUP 114.

221. Clarke's Pyramid & Fairy Light Co.,
 Ltd., London. Lamps and food warmers. 720

GROUP 115.

222. Barnes' Patent Dryer & Aired Syndi-
 cate, London. Clothes dryers and airers. 730
 223. Ewart & Son, London. Dept. F
a Gas controlling apparatus. 724
b Bath and geyser. 726

224. Steel & Garland, London. Fire-
 places, grates, fenders and fireside requi-
 sites. 724

225. Wright, John, & Co., Ltd., London.
 Gas apparatus, fires and baths.
 (Dept. F.) 728

GROUP 119.

226. Staniforth, Wm. Thos., Sheffield.
 Knives. 751
 227. Tubular Lock Syndicate, Ltd., Lon-
 don. Locks. 747
 228. Wostenholm, George, & Son, Ltd.,
 Sheffield. Knives, table cutlery, razors
 and scissors. 751

GROUP 121.

229. Bryant & May, Ltd., London. Vestas,
 matches, wax tapers and braided lights.

INDIA.

1. Ardeshir & Byramji, Bombay. Pot-
 tery. 575
 2. Ardeshir & Byramji, Bombay. Art
 metal work. 585
 3. Ardeshir & Byramji, Bombay.
a Carved sandalwood and furniture. 598
b Carved and inlaid ivory. 599
 4. Ardeshir & Byramji, Bombay. Silver
 ware. 604
 5. Ardeshir & Byramji, Bombay. Gold
 and silver jewelry. 612
 6. Ardeshir & Byramji, Bombay. Silk
 fabrics. 627
 7. Ardeshir & Byramji, Bombay. Cotton
 fabrics. 638
 8. Ardeshir & Byramji, Bombay.
a Shawls. 642
b Indian carpets. 649
 9. Ardeshir & Byramji, Bombay. Em-
 broidery. 665
 10. Ardeshir & Byramji, Bombay. Indian
 fancy goods. 695
 11. Bombay-Burmah Trading Corporation,
 Rangoon. Cutch; teak. 545
 12. Bombay-Burmah Trading Corporation,
 Rangoon. Umber. 552

13. Croft, Gonne, & Co., Calcutta. Ground
 bone. 92
 14. Das & Gopi, Bepares City. Embroid-
 ery and brocade. 665
 15. De Forest, Lockwood, Ahmedabad.
 House and room in carved wood. 598
 16. De Monte, Jos., Bombay. Model of
 apparatus for preventing collisions on
 railways. 499
 17. Doyle, Harry, & Co., Calcutta. Silver
 jewelry. 612
 18. Doyle, Harry, & Co., Calcutta. Musk.
 549
 19. Rhumgara, F. P., & Co., Bombay.
 Furniture. 567
 20. Rhumgara, F. P., & Co., Bombay.
a Carved bones. 598
b Carved ivory. 599
 21. Rhumgara, F. P., & Co., Bombay.
a Metal vases and trays. 608
b Plate. 609
 22. Rhumgara, F. P., & Co., Bombay.
 Gold and silver jewelry. 612
 23. Rhumgara, F. P., & Co., Bombay.
a Fans and hand screens; fancy goods. 667
b Embroidery. 669

ITALY.

GROUP 87.

1. Cautalano Cav. Salvatore, Partinico. Chemical products. 548
2. Ciaburri, Antonio, Cerreto Sannita. Pharmaceutical preparations. 547
3. Cristofori, Natale, San Vito al Tagliamento. Insect powder. 547
4. Genevois, Felice & Son, Naples. Soaps. 549
5. La Chiavi, Enrico, Palermo. Chemical preparations. 547
6. Martinez, G. G., Gergenti. Pharmaceutical preparations. 847
7. Manara, Dr. Michele, Pavia. Pharmaceutical preparations. 547
8. Porrivecchi, Carlo, Messina. Essences. 549
9. Rognone, Cav. Carlo, Turin. Antiseptic preparations. 547
10. Tarozi, Cesare, Bologna. Hair dye. 547
11. Zampironi Laboratory, Mestre. Insect powder. 547

GROUP 88.

12. Chiariello, Pasquale, Naples. Painters' canvas. 555
13. Pozzi, Giuseppe, Rome. Colors. 555

GROUP 89.

14. Caccia, Antonio & Co., Milan. Lace paper. 562
15. Cartiera Reali, Venice. Paper. 556
16. Fornari, G. B., Fabriano. Paper. 556
17. Miliani, Pietro, Fabriano. Paper. 556

GROUP 90.

18. Anti Bros., Vicenza. Furniture. 567
19. Bacetti, Andrea, Florence. Furniture. 567
20. Barni Bros., Severo San Pietro, Furniture. 567
21. Bertani, Carlo, Milan. Furniture. 567
22. Besarel Bros., Venice. Furniture. 567
23. Biasotto, Antonio, Venice. Artistic objects. 572
24. Borrelli Domenico, Naples. Furniture. 567
25. Bozzelli, Marianna, Naples. Artistic furniture. 572
26. Calabresi, Stefano, Naples. Furniture. 567
27. Candiani, Dr. N., Venice. Furniture. 567
28. Cattaneo Bros., Milan. Furniture. 567
29. Cella, Antonio, & Co., Milan. Furniture. 567
30. Chiavari Economic Society, Chiavari. Chairs. 565
31. Ciaramelli, Stefano, Florence. Frames. 569
32. Corbella, Carlo, Milan. Furniture. 567

33. Del Soldato, Giuseppe, Florence. Furniture. 567
34. Frullini, Prof. Luigi, Florence. Artistic furniture. 572
35. Grassi, Erasmo, & Son, Catania. Furniture. 567
36. Mariani, Eduardo, Milan. Furniture. 567
37. Minghetti, Prof. G. B., Vicenza. Furniture. 567
38. Modenato, Marco, Venice. Artistic furniture. 572
39. Mora Bros., Milan. Furniture. 567
40. Meroni & Fossati, Lissone. Furniture. 567
41. Olivotti, A., & Co., Florence. Furniture. 567
42. Pogliani, Ferdinando, Milan. Artistic furniture. 572
43. Picchi, Andrea, Florence. Picture frames. 572
44. Pucci, Prof. Carlo, Florence. Furniture. 567
45. Querena, Francesco, Turin. Furniture. 567
46. Ramelli, Andrea, Milan. Furniture. 567
47. Rossi & Sons, Venice. Artistic furniture. 572
48. Sonnino, Pasquale, Resina. Furniture. 567
49. Schmitt, Bonifacio, Naples. Furniture. 567
50. Spadaro, Antonino, Noto. Grille work. 572
51. Tappari, Pietro, Florence. Furniture. 567
52. Tenca & Co., Milan. Mirrors. 569
53. Testolini, M. Q., Venice. Furniture. 567
54. Toledo, Matteo, Naples. Furniture. 567
55. Toso, Francesco, Venice. Artistic furniture. 572
56. Zanetti, Antonio, Vicenza. Furniture. 567
57. Zucconi, Vincenzo, Florence. Furniture. 567

GROUP 91.

58. Antonibon, Pasquale, & Sons, Nove. Pottery. 575
59. Artistic Industrial Museum, Naples. Ceramic articles. 575
60. Bazzanti & Son, Florence. Mosaics. 580
61. Boncinelli & Sons, Florence. Mosaics. 580
62. Cacciapuoti, Ettore & Guglielmo, Naples. Ceramic art. 575
63. Cantagalli, Ulisse, Florence. Pottery. 575
64. Castellani, Comm. Guglielmo, Rome. Pottery. 575
65. Co-operative Mosaic Society, Florence. Mosaics. 580

ITALY.

66. De Bottazzi, Ignazio, Turin. Pottery. 575
67. Fabri, Pio, Rome. Majolica. 575
68. Galleano, E., Genoa. Majolica. 575
69. Mazzarella, Bernardino, Naples. Pottery. 575
70. Molaroni & Co., Pesaro. Artistic majolica. 575
71. Mollica, Achille, Naples. Ceramics. 575
72. Montelatici, Giuseppe, Florence. Mosaics. 580
73. Pasqualetti, Carlo, Volterra. Pottery. 575
74. Petralli & Co., Florence. Mosaics. 580
75. Torelli, Prof. Jafet, Florence. Majolica. 575
76. Richard & Co., Milan. Pottery. 575
77. Rocca, R. & Co., Venice. Mosaics. 580
78. Roccheggiani, Rome. Mosaics. 580
79. Salvini & Co., Florence. Pottery. 575
80. Schibba, Luigi, Rome. Mosaics. 580
81. Ugolini, Giovanni, Florence. Mosaics. 580
82. Venetian Mosaic Society, Venice. Mosaics. 580
83. Viero, G. B., Bassano. Majolica. 575
84. Zorzi, A. & Bro., San Ambrozio Valpolicello. Bricks. Dept. E 574
- GROUP 92.**
85. Andreoni Gallery, Pisa. Marbles. 582
86. Andreoni, Orazio, Rome. Marble statue. 582
87. Bazzanti & Son, Florence. Marbles. 582
88. Frilli, Antonio, Florence. Marbles. 582
89. Ghirardi, Vittorio, Carrara. Marbles. 582
90. Lapini Bros., Florence. Marbles. 582
91. Montarsolo, Vittorio, Genoa. Marbles. 582
92. Scheggi Bros., Florence. Marbles. 582
93. Vannetti, Cesiano, Leghorn. Alabaster statue. 582
94. Ventimiliano Hospital, Palermo. Marbles. 582
95. Vichi, Ferdinando, Florence. Marbles. 582
- GROUP 93.**
96. Bartoloni, Oreste, Rome. Bronzes. 585
97. Boschetti, B., Rome. Artistic bronze reproductions. 585
98. Brugo, Cav. Vincenzo, Rome. Artistic objects. 585
99. Calvi, Constantino, Rome. Bronzes. 585
100. Graziosi, Oreste, Florence. Bronze work. 585
101. Johnson, Stefano, Milan. Medals and bronze articles. 585
102. Layet, Cav. Frederico, Venice. Bronzes. 585
103. Muzio, Bartolomeo, Genoa. Bronzes. 585
104. Nelli, Cav. Alessandro, Rome. Artistic bronze reproductions. 585
105. Olivari, Gaetano, Genoa. Bronze crown. 585
106. Pandiani, Antonio, Milan. Bronzes. 585
107. Quadrelli, Mario, Milan. Bronze and silver articles. 585
108. Testori, Giuliano, Turin. Bronzes. 585
109. Tosato, Domenico, Venice. Gilded figures. 585
110. Traverso, Lorenzo, Genoa. Bronzes. 585
- GROUP 94.**
111. De Caro, Antonio, Naples. Glassware. 591
112. Salviati & Co., Venice. Glass. 591
113. Venice and Murano Company, Venice. Glassware. 591
- GROUP 96.**
114. Bruno, Cav. Francesco, Naples. Wood carving. 598
115. Cadorn, Vincenzo, Venice. Wood carvings. 598
116. Nebbiosi Nicodemo, Voghera. Wood work. 598
117. Vannuchi, Rodolfo, Florence. Carved wood. 598
- GROUP 97.**
118. Accarisi & Nephew, Florence. Artistic silverware. 605
119. Calvi, Constantino, Rome. Silverware. 605
120. Ciardi, Antonio, Prato. Artistic silverware. 605
121. Consoli Cav. Alfio, Milan. Silverware. 605
122. Frumento, M. G., Genoa. Silver filigree. 607
123. Graziosi, Oreste, Florence. Gold work. 604
124. Miglio, Giuseppe, Vercelli. Filigree work. 607
125. Meda, Francesco, Milan. Silverware. 605
126. Quadrelli, Mario, Milan. Silver articles. 607
- GROUP 98.**
127. Berretta, Stefano, Rome. Filigree jewelry. 612
128. Bettini, Mario, Florence. Gold and silver jewelry. 612
129. Bonetti, Giuseppe, Florence. Gold and jewelry. 612
130. Cami, Enrico, Rome. Cameos. 614
131. Cortellazzo, Antonio, Vicenza. Gold jewelry. 612
132. De Felici Publio, Rome. Cameos. 614
133. De Marco, Antonino, Naples. a Gold work. 612
b Coral. 614
134. Errico, Vincenzo, Naples. Gold jewelry. 612
135. Fasoli, Federico, Rome. Gold jewelry. 612
136. Graziosi, Oreste, Florence. Jewelry. 612
137. Labriola, Angelo, Naples. Coral and tortoise shell work. 614
138. Labriola, Mariano, Naples. Coral jewelry and tortoise-shell. 614
139. Melillo, Cav. Giacinto, Naples. Gold jewelry. 612
140. Morabito, Rocco, Naples. Gold jewelry. 612

DEPARTMENT H.—MANUFACTURES.

141. Negri, Ottavio, & Co., Rome. Gold jewelry. 612
 142. Pallotti, Luigi, & Bros., Venice. Gold jewelry. 612
 143. Parodi, Nicolo, Genoa. Gold jewelry. 612
 144. Petralli & Co., Florence. Gold work. 612
 145. Pelisier, Leopoldo, Rome. Gold jewelry. 612
 146. Piscione, Michele, Naples.
 a Gold jewelry. 612
 b Coral. 614
 147. Piscione, Enrico, Naples. Coral jewelry and tortoise shell. 614
 148. Rinaldini, Enrico, Florence. Gold jewelry. 612
 149. Sivelli, Egisto, Genoa. Silver jewelry. 612

GROUP 99.

150. Codebo, Roboamo, Noto. Clock escapement. 622

GROUP 100.

151. Dolara, A., Como. Silks. 628
 152. Gargiulo, Rocco, Naples. Silk. 628
 153. Malizia, G., Milan. Silk goods. 628
 154. Offritelli, Pascal, & Co., Naples. Silk goods. 628
 155. Ronchetti, C. F., Milan. Raw silk. 625

GROUP 101.

156. Zari Bros., Milan. Wood carpets. 635

GROUP 102.

157. Alzati, Gaetano, Milan. Woven goods. 638
 158. Bissello, G., & Co., Venice. Dry goods. 638
 159. Finzi, A., Venice. Dry goods. 638

GROUP 103.

160. Arnandon, Griacomo, Turin. Woolens. 640

GROUP 104.

161. Brischetto, Sebastiano, Acireale. Boots and shoes. 656
 162. Campiaghi, Giuseppe, Monza. Hats. 654
 163. Cannizzaro, Giovanni, Palermo. Clothing. 652
 164. Carozzi, Giuseppe, & Son, Monza. Hats. 654
 165. Caviezel, Rodolfo, Florence. Boots and shoes. 656
 166. Cernuschhi, G., & Co., Monza. Hats. 654
 167. Corsaro, Francesco, Catania. Shoes. 656
 168. De Luca, Gaetano, Catania. Boots and shoes. 656
 169. Di Branda, Gaspere, Palermo. Boots and shoes. 656
 170. Durante, Giuseppe, & Son, Palermo. Clothing. 652
 171. Frinzi, Russo Giovanni, San Stefano Comastra. Boots and shoes. 656
 172. Gargiulo, Eduardo, Naples. Gloves. 657
 173. Goio, Giuseppe, Rome. Clothing. 652

174. La Farina, Cesare, Palermo. Hats. 654
 175. Pelaccia, Pietro, Palermo. Shoes. 656
 176. Pongiglione, Girolamo, Savona. Boots and shoes. 656
 177. Scandurra, Alfio, Catania. Boots and shoes. 656
 178. Scavia, Angelo, Mortara. Hats. 654
 179. Sciortino, Feo Nicolo, Palermo. Clothing. 652
 180. Traverso, A., & Son, Genoa. Boots and shoes. 656
 181. Truden, G., & Sons, Palermo. Clothing. 652
 182. Urso, Giuseppe, Palermo. Shoes. 656
 183. Valera & Ricci, Monza. Hats. 654
 184. Valle, Emilio, Chiavari. Patterns and uppers. 656
 185. Vinci, M., & Son, Palermo. Boots and shoes. 656

GROUP 106.

186. Brenda & Simonetti, Rome. Tapestry imitation. 671
 187. Borzacchini, Augusto, Rome. Tapestry imitation. 671
 188. Cosulich, Cleto, Syracuse. Embroidery. 665
 189. Dovizielli, Cesare, Rome. Tapestry imitation. 671
 190. Erolì, Erulo, Rome. Tapestry imitation. 671
 191. Finzi, A., Venice. Embroidery. 665
 192. Jesurum & Co., Venice. Laces. 664
 193. Pagliei, Brugo, Rome. Tapestry imitation. 671
 194. Radaelli, Giuseppe, Monza. Tapestry goods. 670

GROUP 110.

195. Archinaud, E., Naples. Straw work. 695
 196. Barbarulo Bros., Capriglia di Salerno. Fancy articles. 695
 197. Conti & Mannozi, Florence. Straw work. 695
 198. Gerardi, Giacinto & Bros., Marostica. Straw work. 695
 199. Neapolitan Artistic Society, Naples. Fancy articles. 695

GROUP 111.

200. Chapot, Giovanni, Turin. Hides. 696
 201. Fornari, G. B., Fabriano. Hides. 696
 202. Mazza, Giuseppe, Milan. Hides. 696
 203. Mora, Luigi, Milan. Leather work. 705

GROUP 114.

204. Pavesi & Co., Milan. Candelabra, etc. 721
 205. Franeo, Cav, Domenico, San Marco Argentano. Iron lamp. 719
 206. Torchi, Jaddeo, Bologna. Iron lamps. 719

GROUP 115.

207. Orsola, Antonio, Rome. Covers. 730
 208. Profumo, Gaetano, Genoa. Ovens. 727

GROUP 116.

209. Baslanzetti, Donato, Udine. Bells. 733
 210. Colbacchini, Pietro, Bassano Veneto. Bronze bells. 733

JAMAICA.

GROUP 118.

211. Bottacin Bros., Venice. Wrought iron. 743
 212. Castello, Prospero, Turin. Iron ware. 743
 213. Guaita, G., & Sons, Turin. Wrought iron. 743
 214. Merli, Camillo, Mirabello Ferrarese. Iron ware. 743
 215. Zalaffi, Benedetto, and Sons, Siena. Wrought iron. 743
 216. Zalaffi, Luciano, Siena. Wrought iron. 743

GROUP 119.

217. Biondi, Filippo, Catania. Locks. 747
 218. Licciardello, Salvatore, Acireale. Rasps. 750
 219. Luini, B. E., & Co., Milan. Saws. 750
 220. Pagani, A. C. & Bros., Milan. Saws. 750
 221. Sirtori, Cesare, Milan. Locks. 747

GROUP 121.

222. Losacco & Capri, Bari. Matches.
 223. Stento, Raffaele, Chieti. Cages.
 224. Fantappie, Stefano, & Sons, Florence. Illuminating apparatus.

JAMAICA.

GROUP 87.

1. Auvray, P. E., Kingston.
 a Ginger and dentifrice. 547
 b Wax and oils. 549
 2. Crosswell, J. M., & Co., Kingston. Drugs and pharmaceutical preparations. 547
 3. Curphey, T. J., Kingston. Druggists' sundries. 548
 4. Francis, C. A. R., Kingston. Transparent chlorodyne. 546
 5. Grant's, Chas., Successor, Kingston. Drugs and toilet preparations. 549
 6. Hibbert, F. F., May Pen. Oil of pepper. 549
 7. Hibbert, J. M., May Pen. Extract of pepper. 549
 8. Ingram, Miss C., Chapelton. Drugs and pharmaceutical preparations. 547
 9. Kinkead, E. D., Kingston. Dentifrices. 547
 10. Lambert, Mrs., Shooter's Hill. Abbey oil. 549
 11. Macpherson, L. G., Kingston. Essential oils and dentifrices. 549
 12. McCatty, A. G., & Son, Montego Bay. Essences. 549
 13. Scharschmidt, S. T., Spanish Town. Essential oils; essences. 549
 14. Strachan, J. F., Black River. Sarsaparilla. 547

GROUP 90.

15. Findlayson, A., Kingston. Inlaid tables. 566
 16. Sanguinetti, Miss B. E., Kingston. Fern lamp shades. 572
 17. Steer, Miss, Claremont. Fancy work. 573
 18. Wortley, Miss, Kingston. Fancy work. 573

GROUP 91.

19. Aikin, Wm. W., Kingston. Pottery. 575
 20. Kerr, W. A., Kingston. Pottery. 575
 21. Taylor, Chas., Kingston. Pottery. 575
 22. Wortley, Mais & Sant, Kingston. Pottery. 575

GROUP 101.

23. Commissioner for Jamaica, Kingston. Mats and baskets. 635

24. Falmouth District Prison, Falmouth. Coconut coir, mats, etc. 635
 25. General Penitentiary, Kingston. Coconut coirs, mats, etc. 635
 26. Grant, Edward, Trinityville. Mats of banana fibre. 635
 27. Mcfarlane, J., Trinityville. Articles made from banana trash. 635
 28. Turland, May Pen, Mrs. Fibre work. 633

GROUP 104.

29. Hylton, Jonathar, Glouyoffe. Hats. 654
 30. McLean, S., Santa Cruz. Hats. 654
 31. Thomas, R., Trinityville. Bamboo hats. 654

GROUP 106.

32. Astwood, Miss J., Kingston. Fancy work. 665
 33. Lynct, Miss M., Kingston. Fancy work. 665
 34. Maclaverty, The Misses, Cold Spring. Fancy work. 665

GROUP 108.

35. Commission for Jamaica, Kingston. Walking sticks. 681
 36. Harris, Robert, Kingston. Walking sticks. 681
 37. Pitter, F. T., Kingston. Sticks. 681

38. Smith, Chas., St. Ann's Bay. Walking sticks. 681

GROUP 110.

39. Findlayson, A., Kingston. Cigar and work boxes. 694
 40. Gauntlett, Miss A. B., Falmouth. Fancy work. 695
 41. Hall, Miss C., Bogwalk. Fancy work. 695
 42. Hendrick, Mrs. Thomas, Kingston. Fancy work; painted screens; dish covers. 695
 43. Nash, Mrs., Watson Hill. Cashew dolls. 695
 44. Shaw, Robt., Christiana. Fancy work. 695

GROUP 111.

45. Cassis, John, Kingston. Leather. 696
 46. Lyons & Clarke, Kingston. Tanned hides. 697

JAPAN.

GROUP 87.

1. Daijiro Nakamura, Yamagata. Liquid peppermint. 549
2. Fusajiro Hirooka, Osaka. Perfumes. 549
3. Gosaburo Fujita, Osaka. Deodorizer. 547
4. Heibei Okamura, Osaka. Oil. 548
5. Heichiro Binnaka, Osaka. Matches. 550
6. Hikotaro Miyake, Kyoto. Tooth powder. 549
7. Hisakichi Tachiki, Tokyo. Tooth powder. 549
8. Icharo Ochi, Ehime. Cotton. 548
9. Itaro Hinotsume, Ishikawa. Tooth powder. 549
10. Jyusuke Harumoto, Osaka.
 - a Refined camphor. 547
 - b Toilet soap. 549
11. Kamegoro Tase, Yamagata. Liquid peppermint. 549
12. Kamejiro Arakawa, Osaka. Camphor (refined and crude). 547
13. Keisuke Kobayashi, Yokohama. Peppermint (crystal and oil). 549
14. Kichibei Matsubara, Osaka. Toilet soap. 549
15. Kichijiro Saito, Tokyo. Tooth powder. 549
16. Kichiroji Tase, Yamagata. Liquid peppermint. 549
17. Kingoro Ono, Tokyo. Tooth powder. 549
18. Kisai Takayama, Tokyo. Tooth powder. 549
19. Kizaemon Agano, Kumamoto. Camphor. 547
20. Kohei Kimura, Osaka. Matches. 550
21. Koshichi Harima, Hyogo. Toilet soap. 549
22. Koshi Yokyta, Hyogo. Tooth soap. 549
23. Kyujiro Sakamoto, Fukuoka. Camphor. 547
24. Kyuzo Kamagai, Kyoto. Joss sticks; perfumes. 549
25. Manzo Tsutsui, Osaka. Matches. 550
26. Masakichi Kawabata, Hyogo. Refined camphor. 547
27. Match Seizo Kumiai, Hyogo. Matches. 550
28. Matsunosuke Fukui, Osaka. Toilet soap. 549
29. Naosaburo Kimura, Osaka. Pomade. 549
30. Naokazu Yoshioka, Osaka. Soap. 549
31. Osaka Seisuisha, Osaka. Matches. 550
32. Ozaki Sekken Seizoshō, Osaka. Soap. 549
33. Ryoza Mishiyama, Osaka. Drugs. 547
34. Sadanosuke Yoshikaea, Osaka. Fireworks. 551
35. Sakuzaemon Jitsuno, Osaka. Soap. 549

36. Sampei Hirao, Tokyo. Toilet water; tooth powder. 549
37. Seihei Fukuda, Osaka. Tooth powder. 549
38. Sei Kamei, Kanagawa. Chemists' wares. 548
39. Seimon Ito, Osaka. Toilet soap. 549
40. Shigeo Iwata, Yokohama. Fireworks. 551
41. Shinzaburo Tomita, Tokyo. Tooth powder. 549
42. Sobei Mishina, Kyoto. Tooth powder. 549
43. Sogoro Nagakawa and one other, Osaka. Joss sticks. 549
44. Sohachi Oyama, Yamagata. Peppermint (liquid and crystal). 549
45. Takeyasu Kiyokawa, Nagasaki. Chemicals. 549
46. Tatsuzo Hagiwara, Osaka. Toilet soap. 546
47. Teikichi Tanabe, Hyogo. Refined camphor. 547
48. Tokachi Fujimoto, Kumamoto. Camphor oil. 547
49. Tokijiro Mihashi, Tokyo. Toilet water; tooth powder. 549
50. Tokunosuke Yarita, Tokyo. Tooth powder. 549
51. Tomanosuke Nishibata, Osaka. Drugs. 547
52. Tomojiro Yamashita, Osaka. Toilet soap. 549
53. Tsunejiro Kuroiwa, Miyazaki. Camphor. 547
54. Yasugoro Naruo, Osaka. Refined camphor. 547
55. Yasunori Fukutomi, Osaka. Tooth powder. 549
56. Yasutaro Doi, Miyazaki. Camphor. 547
57. Zenkichi Waikata, Osaka. Tooth powder. 549

GROUP 88.

58. Hachiro Ikata, Tokushima. Indigo. 552
59. Kaemon Nishino, Tokushima. Indigo. 552
60. Kinujiro Niizaki, Tokushima. Indigo. 552
61. Masuzo Sato, Tokushima. Indigo. 552

GROUP 89.

62. Anshō Yamamoto, Kumamoto.
 - a Paper napkins. 557
 - b Paper. 558
63. Asaichiro Fojii, Shimane. Paper. 556
64. Banseisha, Saga.
 - a Paper. 556
 - b Paper napkins. 557
65. Besshinsha, Shizuoka. Paper. 558
66. Bunsaburo Takami, Tokushima. Paper. 556
67. Chujiro Narukawa, Saitama. Paper. 556

JAPAN.

68. Commercial and Manufacturing Bureau. Specimens showing process of manufacturing paper articles. 557
69. Denjuro Inoue, Kochi. 558
a Tissue papers. 558
b Copying and blotting paper. 560
c Oil paper. 563
70. Edogawa Paper Manufacturing Company, Tokyo. 556
a Paper. 556
b Writing paper; envelopes. 560
71. Eisuke Matsui, Gifu. 556
a Paper. 556
b Wrapping paper. 558
72. Fuji Paper Manufacturing Company, Tokyo. 556
a Paper, pulp and paper stock. 556
b Wood and straw boards. 557
c Paper. 559
73. Fukutaro Tanikawa, Yokohama. 556
a Paper. 556
b Envelopes. 560
c Wall paper. 563
74. Genjiro Teramura, Osaka. Wall paper. 563
75. Genjyun Matsui, Nara. Japanese ink. 564
76. Genshiro Shimizu and six others, Gifu. Stationery goods. 564
77. Genta Yoshii, Kochi. 557
a Papier-mache. 557
b Yakutai and tissue papers. 558
c Lithographic paper. 560
d Tracing, blotting; copying paper. 560
78. Genzaburo Fujita, Hyogo. Paper. 558
79. Genzaemon Ota, Shizuoka. 556
a Paper. 556
b Writing paper. 560
c Ornamental paper. 562
80. Hachijyuro Takatsu, Hiroshima. Paper. 556
81. Hachirozaemon Kiyomizu, Miyazaki. 556
a Paper. 556
b Wrapping paper. 558
82. Harujiro Osuka, Tokushima. Paper. 556
83. Heijiro Suga, Shizuoka. Paper. 560
84. Hideo Nakayama, Kochi. 556
a Paper. 556
b Drawing and blotting paper; envelopes. 560
c Ornamental and decorated paper. 562
85. Hikozaemon Watanabe, Shizuoka. Paper. 560
86. Kiryu Crape Manufacturing Company, Gumma. Crape. 562
87. Ichibei Kawagishi, Kumamoto. Stationery goods. 564
88. Iemon Tanimura, Tokyo. Paper knife. 564
89. Ihei Oka, Osaka. Pencil sharpeners. 564
90. Iida-Bussan-Kwaisha, Nagano. Paper strings; floor matting. 557
91. Jinzaburo Hagiwara, Tokyo. Paper. 556
92. Jirobei Yamada, Tokyo. Wall paper. 563
93. Jizaemon Hiroba, Fukui. Paper. 562
94. Jyunnosuke Sekiguchi, Tokyo. Paper articles. 557
95. Kaichiro Inada, Hiroshima. Paper. 556
96. Kakutarō Katō, Fukui. Printing paper. 559
97. Katsutaro Uchiyama, Shizuoka. Paper. 556
98. Katsuyuki Utsumi, Hyogo. Paper. 556
99. Kiichirō Tamanaga, Tokyo. Erasers. 564
100. Kihachi Fusayasu, Tottori. Paper. 556
101. Kisaburo Nishio, Tokyo. Paper weights. 564
102. Kohachi Nishio, Tottori. Paper. 556
103. Kōichirō Takase, Shizuoka. Paper. 558
104. Koichiro Takase, Shizuoka. Paper. 556
105. Kosuke Kano, Osaka. Paper cutters. 564
106. Kumagoro Taniguchi, Tokyo. Wall paper. 563
107. Kurakichi Yamahora, Tokyo. Wall paper. 563
108. Kyūzō Kumagai, Kyōtō. Japanese ink; writing brushes. 564
109. Mamemon Suda, Gifu. 556
a Paper. 556
b Wrapping paper. 558
110. Masuta Kimura, Kumamoto. Paper. 556
111. Matabei Iwa, Osaka. Oil paper. 563
112. Matashichi Yamaguchi, Osaka. Pencil sharpeners. 564
113. Matsujiro Fukunishi, Nara. Paper. 556
114. Minetaro Nota, Hiroshima. Paper. 560
115. Mozaemon Shimamura, Tokyo. Decorated paper. 562
116. Mumekichi Mochizuki, Shizuoka. Envelope paper. 560
117. Naojiro Teshigawara, Gifu. 557
a Paper napkins. 557
b Ornamental paper. 562
118. Naokichi Azumi, Hyogo. Paper. 556
119. Naraken Yoshino Paper Association, Nara. Paper. 556
120. Nobuaya Tsukamoto, Okayama. Paper. 559
121. Osaka-Abe-Paper Mill, Osaka. 558
a Wrapping paper. 558
b Paper. 559
122. Rokuro Ogata, Ehime. Paper. 556
123. Ryue Kawato, Tottori. Paper. 556
124. Sadasuke Saikawa, Shimane. Paper. 556
125. Sahei Iketani, Shizuoka. Paper pulp. 556
126. Sajyuro Miyatake, Nara. Japanese ink. 564
127. Sanehiko Inada, Kumamoto. Paper. 558
128. Sanemon Shimada, Osaka. Paper goods. 557
129. Sanjiro Matsui, Gifu. Paper. 556
130. Sankosha, Shizuoka. 556
a Paper. 556
b Wrapping paper. 558
c Writing paper. 560

DEPARTMENT H.—MANUFACTURES.

131. Seijyuro Taniguchi, Tottori. Paper. 556
132. Seiroku Shimizu, Tottori. Paper. 556
133. Seizo Yamoto, Tokyo. Imitation leather work. 557
134. Siezo Yamashiro, Kumamoto. Imitation leather. 557
135. Senshiro Miyahara, Tokyo. Molding paper. 557
136. Sensuke Kurita, Osaka. Writing brushes; Japanese ink. 564
137. Shinetaro Kuto, Gumma. Cardboard. 557
138. Shinyosha, Fukui. Paper. 556
139. Shinzo Sakamoto, Oita. Paper. 556
140. Shizuoka Paper Manufacturing Co., Minamiuramachi, Shizuoka. Paper. 560
141. Shizuoka Paper Manufacturing Company, Zaimokucho, Shizuoka. Paper. 558
142. Shōichirō Ohara, Tōkyō. Rulers. 564
143. Shūshaku Saruwatari, Kumamoto. Paper. 558
144. Sojiro Ito, Tokyo. Wall paper. 563
145. Sueoto Fujiki, Tōkyō. Stenographic apparatus. 564
146. Suketaro Kajiware, Oita. Paper. 556
147. Sukeemon Takei, Gifu.
a Paper. 556
b Paper napkins. 557
148. Sukezaemon Takei, Gifu.
a Paper. 558
b Drawing paper. 560
149. Tamekichi Ito, Tokyo.
a Molding paper. 557
b Ornamental paper. 562
c Drawing instruments. 564
150. Tamekichi Itō, Tōkyō. Copying paper. 560
151. Tahachi Tsuda, Hiroshima. Paper. 556
152. Taiichi Fukunishi, Nara. Paper. 556
153. Tarohi Watanabe, Kanazawa.
a Paper. 556
b Blotting paper. 560
154. Tarojiro Hagiwara, Shizuoka. Paper. 557
155. Taosa Kubota, Shizuoka. Paper. 558
156. Tazo Yasuda, Hyogo. Cards. 557
157. Tokichi Matsuda, Tokyo. Wall paper. 563
158. Tokubei Honmei, Hiroshima. Paper. 556
159. Tokuheii Komota, Ehime. Paper. 556
160. Tokujiro Taniguchi, Tokyo. Paper (tissue). 558
161. Tokujiro Taniguchi, Kyoto. Copying paper. 560
162. Tomazo Watanabe, Tōkyō. Paper box (lacquered). 564
163. Torzo Harada, Tokushima. Paper. 556
164. Tosa Paper Trade Union, Kōchi.
a Paper. 558
b Hand-made paper. 562
c Writing paper. 560
165. Torakiyo Sato, Tokyo.
a Paper. 560
b Pen case. 564
166. Toyohachi Yasuda, Gifu.
a Paper napkins. 557
b Ornamental paper; paper. 562
167. Toyotarō Kusakari, Tōkyō. Paper knife. 564
168. Treasury Department. Paper mill section of Printing and Engraving Bureau. Paper. 556
169. Tsuneshichi Kuwahara, Osaka. Writing brushes. 564
170. Tsuruji Kano, Hiroshima. Paper. 556
171. Uhachi Harada, Tokushima. Paper. 558
172. Wasaku Toyama, Kumamoto. Paper. 556
173. Yagozo Mashiba, Hiroshima. Paper. 556
174. Yasu Araki, Osaka. Paper napkins. 557
175. Yonosuke Kondo, Hyogo. Bleached bark of Edgeworthia Papyrifera (for paper making). 556
176. Yoshiharu Tone, Tōkyō.
a Paper; paper stock. 556
b Molding paper. 557
177. Yoshinori Matsuzawa and one other, Saitama. Paper. 556
178. Yukichi Kojima, Hyogo. Paper. 556
179. Zempei Tanaka, Fukuoka. Paper. 556
180. Zentaro Kawachi and one other, Ehime. Paper. 556
181. Zenshichi Goto, Gifu. Paper. 556
182. Zenshichi Goto, Gifu. Paper. 562

GROUP 90.

183. Asajiro Ichishima, Tokyo. Lacquer ware. 567
184. Asajiro Narita, Tokyo. Lacquer work. 567
185. Baison Okada, Tokyo. Picture. 567
186. Bekko Ando, Tokyo. Carving. 567
187. Bunkichi Ogawa, Chiba. Bamboo screens. 567
188. Chōgorō Horino, Ōsaka. Bamboo curtains. 568
189. Chojiro Suzuki, Kyoto. Lacquer work. 567
190. Chokichi Nakagawa, Yokohama. Lacquer work. 567
191. Chōshichi Kōsaka, Shizuoka. Book cabinet. 567
192. Chozo Watanabe, Yokohama. Screens. 567
193. Chyojiro Okada, Tokyo. Fancy box. 567
194. Commercial and Manufacturing Bureau. Specimens showing process of manufacturing lacquer work. 567
195. Daisuke Kato, Yokohama. Furniture. 567
196. Benjiro Hamamura, Tokyo. Cake boxes. 567
197. Denjiro Mitani, Ishikawa. Lacquer ware. 567
198. Ejirō Hoshino, Chiba. Bamboo screens. 567
199. Eikichi Ishii, Tokyo. Lacquer work. 567
200. Ei Tawara, Tokyo. Lacquer goods. 567
201. Geisan Takano, Kumamoto. Screens. 567

JAPAN.

202. Genkichi Ishio, Osaka. Screens. 567
 203. Gensuke Iinuma, Toyko. Cigar box. 567
 204. Gimbei Kuroha, Ibaraki. Lacquer screens. 567
 205. Gisaburō Osawa, Gifu. Window curtains. 568
 206. Gisuke Miyamoto, Kyōtō. Window curtains. 568
 207. Gohei Katsuraki, Kanazawa. Fancy box (carved). 567
 208. Gohei Tomon, Osaka. Furniture. 567
 209. Gyoshun Tsuchiya, Tokyo. Pictures. 567
 210. Hanko Kajita, Tokyo. Picture. 567
 211. Hanshire Sakai, Tokyo. Bon-bon box and napkin rings. 567
 212. Heibei Yoshida, Hōygo. Screens. 567
 213. Heibei Watatani, Ishikawa. Articles for house decoration. 572
 214. Heikichi Inoue, Osaka. Screens. 567
 215. Hikobei Nichimura, Koyoto. Lacquer ware. 567
 216. Hyosai Kimura, Kyoto. Lacquer ware. 567
 217. Hyoemon Nagakura, Shizuoka. Bamboo screens. 567
 218. Ichibei Kawagishi, Kumamoto. Lacquer ware. 567
 219. Ichibei Kumagi, Kyoto.
a Embroidery, screen; velvet hangings. 573
b Window curtains. 568
c Fire screens. 567
 220. Ichimatsu Wada, Osaka. Bamboo basket. 567
 221. Ichitare Morimura, Tokyo.
a Furniture. 567
b Embroidery work. 573
 222. Ichyō Kawanobe. Lacquer work. 567
 223. Ihei Fujiwara, Osaka. Furniture (lacquer work). 567
 224. Ihei Nakao, Osaka. Fire screens. 567
 225. Ikujiro Hata, Kanazawa. Lacquer ware. 567
 226. Isaburo Miyanaga, Kanazawa. Lacquer ware. 567
 227. Isabura Sanada, Kyoto. Lacquer ware. 567
 228. Ishimatsu Izushi, Kyoto. Lacquer ware. 567
 229. Iwajiro Kambayashi, Tokyo. Paper vases. 567
 230. Jiichirō Terao, Kanazawa. Lacquer ware. 567
 231. Jihei Nishimura, Kyoto.
a Hangings for decoration. 568
b Screen made of yuzen fabric. 567
 232. Jihei Oka, Osaka. Furniture. 567
 233. Jiemon Miyaji, Ishikawa. Book case (lacquered). 567
 234. Jisaburo Mikami, Kyoto. Lacquer work. 567
 235. Jisaku Sawada, Kanazawa. Lacquer ware. 567
 236. Kahei Saito, Osaka. Furniture. 567
 237. Kambei Takagi, Tokyo. Antimony ornaments. 567
 238. Kanejire Aihara, Tokyo. Crystal ornaments. 567
 239. Kanejiro Yamanishi, Toyko. Pictorial plaques. 567
 240. Kanesaburo Wakai, Tokyo. Lacquer ware. 567
 241. Kansai Trading Company, Kyoto.
a Lacquer ware; furniture. 567
b Bamboo curtains. 568
 242. Kashichi Nosue, Tokyo. Screens. 567
 243. Kashichi Sano, Tokyo. Lacquer ornaments. 567
 244. Kasuke Kubota, Ishikawa. Lacquer work. 567
 245. Kazumasa Kawai, Kanazawa. Book case (lacquered). 567
 246. Kichibei Araki, Osaka. Shelves. 570
 247. Kichibei Nakamura, Tokyo. Lacquer work. 567
 248. Kichibei Tsuda, Ishikawa. Fancy box (lacquered). 567
 249. Kichihei Matsuoka, Ishikawa. Lacquer work. 567
 250. Kichiji Watano, Ishikawa.
a Lacquer ware. 567
b Articles for house decoration. 572
 251. Kichirobei Yamanaka, Osaka. Screens. 567
 252. Kiemon Amano, Osaka. Curtains; screens. 568
 253. Kihachiro Kawamoto, Kyoto. Lacquer work. 567
 254. Kihachirō Tamaguchi, Ishikawa. Trays (lacquered). 567
 255. Kijiro Saito, Tokyo. Picture. 567
 256. Kikunosuke Oka, Yokohama. Articles for house decoration. 572
 257. Kimbei Kusakabe, Yokohama. Articles for house decoration. 572
 258. Kintarō Saka, Tōkyō. Window curtains. 568
 259. Kisaburo Hirasawa, Kanazawa. Lacquer ware. 567
 260. Kisaburō Ishizumi, Kyōtō. Fire screens. 567
 261. Kisaburo Nishio, Tokyo. Lacquer ware. 567
 262. Kogoro Sugita, Tokyo. Mirror frame. 569
 263. Kojiro Kobayashi, Tokyo. Lacquer ware. 567
 264. Konkichi Yoshikawa, Kanazawa. Screens. 567
 265. Kosaburo Mikami, Kyoto. Lacquer work. 567
 266. Kozaburo Tamamura, Yokohama. Articles for house decoration. 572
 267. Kosaburo Usui, Kyoto. Artistic decoration (for walls). 571
 268. Kuhei Manki, Tokyo. Lacquer paper ware. 567
 269. Kuninosuke Soma, Tokyo. Pictures. 567
 270. Kurosaku Murakami, Kanazawa. Carved articles. 567
 271. Kyoto Ito-Mono Association, Kyoto. Screens. 567
 272. Kyōtō Itomono-Kyōkwai, Kyōtō. Fire screens. 567
 273. Kyubei Tanaka, Tokyo. Bamboo shelves. 567
 274. Kyujiro Kobayashi, Kyoto. Embroidered screens. 573

DEPARTMENT H.—MANUFACTURES.

275. Kyutaro Tanaka, Tokyo. Lacquer incense case. 567
276. Lacquer Work Company, Tokyo. Lacquer work. 567
277. Magoemon Katō, Ishikawa. Lacquer ware. 567
278. Magohei Inagaki, Kyoto. Lacquer ware. 567
279. Magozaemon Kashiwabara, Tokyo. Lacquer ware. 567
280. Masakatsu Kawagoe, Kanazawa. Screens (lacquered). 567
281. Masakichi Saido, Tokyo. Furniture, etc. 567
282. Masanobu Mase, Tokyo. Lacquer ware. 567
283. Masunosuke Suzuki, Yokohama. Articles for house decoration. 567
284. Masutaro Takata, Tokyo. Incense burner. 567
285. Matakichi Kawai, Kanazawa. Hanging picture. 567
286. Mayumi Araki, Tokyo. Lacquer paper tray. 567
287. Monemon Amano, Kanagawa. Lacquer work. 567
288. Morihachi Morishita, Ishikawa. Lacquer work. 567
289. Morihachi Morishita, Kanazawa. Lacquer ware; plaque. 567
290. Motoyuki Nomura, Tokyo. Furniture. 567
291. Munenaga Hasegawa, Tokyo. Lacquer tea case. 567
292. Naniwa Lacquer School, Kyōto. Lacquer work. 567
293. Naojirō Teshigawara, Gifu. Stove screens. 567
294. Naonosuke Imamura, Yokohama. Lacquer work. 567
295. Nippon Lacquer Work Company, Osaka. Furniture. 567
296. Nizaemon Ezawa, Tōkyō. Screens. 567
297. Nozaku Oka, Kanazawa. Lacquer ware. 567
298. Osaka Shoeisha, Osaka. Curtains. 568
299. Richachi Yōmaoka, Ishikawa. Lacquer work. 567
300. Rihei Ibuki, Hyogo. Silk fabrics. 573
301. Rihei Ukita, Kyoto. Fancy goods. 567
302. Rihei Shingawa, Yokohama. Furniture. 567
303. Rihei Yamamoto, Kyoto. Lacquer ware. 567
304. Rishichi Sawai, Hyōgo. Curtains. 568
305. Rishichi Tanaka, Kyoto.
a Ceiling. 571
b House furniture. 572
c Embroidery work. 573
306. Ryūhei Yokoyama, Kanazawa. Carved plaque (lacquered). 567
307. Sadakichi Nomura, Tokyo. Fancy box. 568
308. Sakubei Oi, Osaka. Curtains. 568
309. Screen Manufactory, Hyōgo. Bamboo curtains. 568
310. Seibei Ina, Ishikawa. Lacquered work. 567
311. Seibei Kanai, Ōsaka. Furniture (screens and pictures). 567
312. Sei Kamei, Kanagawa. Trays. 567
313. Seikichi Ida, Osaka. Bamboo curtains. 568
314. Seiryō Weaving Company, Tokushima. Window curtains. 568
315. Seiuke Ikeda, Kyoto. Gold lacquer box. 567
316. Sennosuke Fukunaga, Tokyo. Incense cases; lacquer trays. 567
317. Sentaro Sato, Yokohama. Furniture. 567
318. Shichihei Oita, Osaka. Bamboo work. 567
319. Shichizo Shibayama, Tokyo. Ivory carving. 567
320. Shigeru Takata, Tōkyō. Table covers. 568
321. Shinkichi Koyama, Tokyo. Screen (lacquer). 567
322. Shinshichi Miura, Osaka. Screens. 567
323. Shinshichi Iida, Kyoto. Silk table covers; art embroidery; screens; bed covers. 573
324. Shinsuke Hayashi, Kyoto. Lacquer ware. 567
325. Shinzō Fujikawa, Kagawa. Lacquer ware. 567
326. Shin Suzuki, Yokohama. Articles for house decoration. 572
327. Shōbei Shiino, Yokohama. Embroidery work. 573
328. Shōichirō Nishimura, Tittori. Chased picture frames. 567
329. Shojiro Kita, Osaka. Furniture. 567
330. Shokoshi Hayakawa, Osaka. Bamboo baskets and vase. 567
331. Shotarō Fugimoto, Osaka. Curtains. 568
332. Shozaburo Yamamoto, Tokyo. Pictures; plaques. 567
333. Shutaro Hayashi, Kanazawa. Lacquer ware. 567
334. Sogen Takano, Kyoto. Lacquer work. 567
335. Sōjirō Koshida, Kanazawa. Lacquer work. 567
336. Soshirō Yoneda, Okinawa. Lacquered picture frames. 567
337. Sotaro Suzuki, Kanazawa. Screens. 567
338. Sozaburō Asano. Lacquer work. 567
339. Sozaemon Nishimura, Kyoto. Embroidery work. 573
340. Soza Yoshikura, Kanazawa. Lacquer ware. 567
341. Sukezo Sanukida, Tokyo. Lacquer ware. 567
342. Tadamas Hayashi, Tokyo. Lacquer ware. 567
343. Tagae Okamura, Tokyo. Oshiye, a cloth-pasting work. 567
344. Taishin Ikeda, Okinawa. Lacquer ware. 567
345. Takayasu Sasaki, Tokyo. Lacquer ware. 567
346. Takematsu Moriuchi, Chibi. Bamboo screens. 567
347. Takijiro Kutsutani, Tokyo. Picture stand. 567

JAPAN.

348. Takizaburo Moriyasu, Yokohama. Articles for house decoration. 572
349. Tamejirō Kawamoto, Osaka. Bamboo curtains. 568
350. Tamekichi Ito, Tokyo.
a Furniture, etc. 567
b Upholstery for windows. 568
351. Tamezō Tamao, Kagawa, Lacquer work. 567
352. Tasuke Yamamoto, Osaka. Vases and baskets. 567
353. Tatsujirō Hirata, Hyōgo. Curtains. 568
354. Tojiro Ishino, Kanazawa. Plaques. 567
355. Tokichi Matsuda, Tokyo. Screens. 567
356. Tokujiro Kawai, Kyoto. Lacquer ware. 567
357. Tokuemmon Mikoshi, Tōkyō. Window curtains. 568
358. Tokujiro Tatsuike, Kyoto. Table. 566
359. Tokuzo Koisumi, Tottori. Lacquered flower vase stand. 567
360. Tomojiro Endo, Tokyo. Metal work. 567
361. Tomosuka Sagaya, Tokyo. Furniture. 567
362. Tomozo Watanabe, Tokyo. Wood carving; lacquer work. 567
363. Torakiyo Sato, Tokyo. Screens. 567
364. Toramatsu Suzuki, Nagoya. Window curtains. 568
- *365. Toranosuke Namikawa, Osaka. Furniture. 567
366. Toyotaro Kusakari, Tokyo. Furniture. 567
367. Tsunetarō Suzuki, Nagano. Oshei board. 567
368. Tsuya Sengoku, Tokyo. Lacquer incense case. 567
369. Unosuke Adachi, Kyoto. Lacquer ware. 567
370. Unosuke Nobunji, Kyoto. Lacquer work. 567
371. Unosuke Shibata, Tokyo. Lacquer ware. 567
372. Ushitaro Fukuda, Tokushima. Embroidered rugs. 573
373. Waichi Okamoto, Osaka. Curtains; pictures. 568
374. Wasaburō Tsuruda, Kanazawa. Lacquer ware. 567
375. Yahei Toshima, Kyoto. Lacquer work. 567
376. Yajiro Kagawa, Tokyo. Furniture. 567
377. Yakichi Uematsu, Tokyo. Lacquer work. 567
378. Yasaburo Hashimoto, Kyoto. Screens. 567
379. Yasutaro Shimizu, Tokyo. Lacquer ware. 567
380. Yasuyuki Mikai, Toyama. Table and boxes. 566
381. Yazō Haoka, Osaka. Embroidery. 573
382. Yoshihei Katayama, Wakayama. Lacquered paper screens. 567
383. Yoshijiro Fujii, Yokohama. Furniture. 567

384. Yoshinosuke Kawashima, Kyoto. Lacquer ware. 567
385. Yonezō Fujikawa, Kagawa. Lacquer ware. 567
386. Yosaburō Komatsu, Kanazawa. Lacquer work. 567
387. Yuho Tanaka, Kyoto. Ceiling and screens. 571
388. Yusaburo Maysumoto, Tokyo. Plates. 567
389. Zembei Ono, Kyoto. Gold lacquer book shelf. 567
390. Zennosuke Fukumoto, Yohohama. Screens. 567
391. Zenshichi Iida, Ishikawa. Lacquer work. 567
392. Zenshichi Matsumoto, Hyogo.
a Curtains. 566
b Embroidered satin table cover. 573

GROUP 91.

393. Akira Daiki, Kyoto. Faience. 576
394. Bannosuke Okamoto, Kyōto. China-ware. 576
395. Bunji Matsumoto, Fukushima. Stone-ware. 575
396. Bunsai Ogawa, Kyoto. Porcelain ware. 577
397. Bunshichi Mizuno, Gifu. Chinaware. 576
398. Chikusen Miura, Kyoto. Chinaware; flower vases. 576
399. Choemon Tsuji, Kanazawa. Porcelain. 577
400. Chojiro Taniguchi, Kyoto. China-ware. 576
401. Chōkurō Fukaumi, Saga. Stone-ware. 575
402. Chyujiro Nakano, Ishikawa. Flower vases. 576
403. Commercial and Manufacturing Bureau. Specimens showing process of manufacturing porcelain, etc. 577
404. Daiseiji Cho, Ishikawa. Pottery. 575
405. Denshiro Mitsui, Ishikawa. Porcelain. 577
406. Dohachi Takahashi, Kyoto.
a Stoneware. 575
b Flower vases. 576
407. Eiji Fukagaya, Gifu. Chinaware. 576
408. Eiki Miyako, Tokyo. Chinaware. 576
409. Eikichi Ishii, Tōkyō. Flower vases. 576
410. Eikichi Jōjima, Saga. Stoneware. 575
411. Eitaro Mori, Okayama. Chinaware. 576
412. Eitarō Nakamura, Tōkyō. Pottery. 575
413. Ena-Earthenware Company, Gifu. chinaware. 576
414. Etsusaburo Ando, Kanazawa. Porcelain. 577
415. Fukuhei Tamura, Hyogo. Stoneware. 575
416. Fukuzo Yasuda, Kyoto. Faience. 576
417. Gempei Ochiai, Tōkyō.
a Pottery. 575
b Chinaware. 576
c Porcelain. 577

DEPARTMENT H.—MANUFACTURES.

418. Genshichi Yasuda, Kyoto. Faience. 576
419. Gentatsu Okuhara, Kagoshima. Pottery. 575
420. Gentatsu Okuhara, Kagoshima. Pottery. 575
421. Giemon Maeda, Saga. Stoneware. 575
422. Ginshyu Takeuchi. Flower vases. 576
423. Gohei Kato, Gifu. Chinaware. 576
424. Gosuke Kato, Aichi. Flower vases, tea set. 576
425. Gosuke Kato, Gifu. Chinaware. 576
426. Hanjiro Fuwa, Tokyo.
a Stoneware. 575
b Porcelain. 577
427. Hannosuke Miyagawa, Kanazawa. Porcelain. 577
428. Hanshichi Shirai, Tokyo. Faience ware. 576
429. Haruzo Saji, Nagoya. Semi-porcelain ware. 576
430. Haruzane Higuchi, Saga.
a Stoneware. 575
b Tea set. 576
431. Hayata Takemoto. Vases. 576
432. Heibei Higuchi, Saga. Stoneware. 575
433. Heikurō Kanagae, Saga. Stoneware. 575
434. Heibei Watatani, Ishikawa. Porcelain. 577
435. Heibei Watatani, Kanazawa. Porcelain. 577
436. Hideo Kawamoto, Tokyo. Porcelain. 577
437. Hikōjiro Imura, Kanagawa. Porcelain. 577
438. Hikosaburo Shirae, Ishikawa. Porcelain. 577
439. Hōjyu Kawano, Tōkyō. Pottery. 575
440. Hokokusha, Gifu. Chinaware. 576
441. Hotoku Arima, Kagoshima. Pottery. 575
442. Hōzan Unrinin, Kyōto, Stoneware. 575
443. Hyochien, Tokyo.
a Stoneware. 575
b Porcelain. 577
444. Ichimo Asai, Ishikawa. Chinaware and flower vases. 576
445. Ichishiro Awada, Kyoto. Faience. 576
446. Ichitaro Morimura, Tokyo. Incense burners; flower vases. 576
447. Ichimo Asai, Ishikawa. Vase. 576
448. Ichiroji Tashiro, Kanazawa. Porcelain. 577
449. Isaburo Yamamoto, Ishikawa. Porcelain. 577
450. Itaro Nishida, Kyoto. Stoneware. 575
451. Janshiro Takagi, Kanazawa. Porcelain. 577
452. Jihei Inoue, Tōkyō. Stoneware. 575
453. Jihei Yokoyama, Osaka. Chinaware. 576
454. Jihei Tsuruta, Saga. Stoneware. 575
455. Jihei Tsukuda, Ishikawa. Porcelain. 577
456. Jinsaku Murakami, Ishikawa. Porcelain. 577
457. Jinshiro Tominaga, Ishikawa. Porcelain. 577
458. Jinzo Oda, Ishikawa. Porcelain. 577
459. Jirokichi Agano, Kumamoto. Chinaware. 576
460. Jiromatsu Akiyam, Ihikwa. Porcelain. 577
461. Jisuke Miyagawa, Kyoto. Chinaware. 576
462. Jitsuzo Yohimuki, Osaka. Chinaware. 576
463. Jizaemon Tateishi, Hyogo. Chinaware. 576
464. Jizaemon Miyaji, Ishikawa. Porcelain. 577
465. Jyūkichi Dodo, Kyōto. Faience. 576
466. Jyukawan Chin, Kagoshima. Pottery; flower vases. 575
468. Jyusho Togo, Kagoshima. Pottery. 575
469. Kai Tsuda, Kyōto. Semi-stone ware (faience). 576
470. Kakiemon Sakaida, Saga. Stoneware. 575
471. Kakuzaemon Higuchi, Saga. Stoneware. 575
472. Kanzaburo Shimizu, Tokyo. Porcelain. 577
473. Kambei Mizuno, Gifu. Chinaware. 576
474. Kansai Trading Company, Kyōto.
a Stoneware. 575
b Porcelain. 577
475. Kanshiro Yamasawa, Ishikawa. Porcelain. 577
476. Kaoru Okane, Tochigi. Dishes and bottles. 576
477. Katsunosuke Tatebayashi, Saga. Stoneware. 575
478. Kenemon Funaki, Shimane. Flower vases. 576
479. Kengo Kato, Kanazawa. Porcelain. 577
480. Kichibei Yoshioka, Kyoto. Chinaware. 576
481. Kiihiro Harita, Kyōto. Faience. 576
482. Kichiji Watano, Ishikawa. Flower vases; incense burner. 576
483. Kihachiro Watanabe, Tokyo. Stoneware. 575
484. Kiheiji Takeda, Hyogo. Chinaware. 576
485. Kihei Kawajiri, Ishikawa. Porcelain. 577
486. Kikuzo Utsumi, Hyogo. Chinaware. 576
487. Kinjiro Hashizume, Kyōto. Flower vases; faience. 576
488. Kinshyu Takenouchi, Ishikawa. Flower vases; incense burners. 576
489. Kizo Mizuno, Fukushima. Stoneware. 575
490. Kizō Kakemi Kyōto. Flower vases. 576
491. Kohachi Asai, Ishikawa. Chinaware. 576
492. Kōjiro Fukushima, Saga. Stoneware. 575
493. Kojiro Uno, Kyoto. Stoneware. 575
494. Komajiro Akiyama, Ishikawa. Porcelain. 577

JAPAN.

495. Koransha, Saga. Porcelain; flower
vases. 576
496. Koshiro Kumagai, Gifu. China-
ware. 576
497. Kozan Makuzu, Saga. Vases. 576
498. Kumaichi Egami, Saga. Stoneware.
575
499. Kumajiro Agano, Kumamoto. Bowl.
576
500. Kuni Nagaoka, Shimane. Flower
vases. 576
501. Kunitarō Kubo, Saga. Stoneware.
575
502. Kunseki Sameshima, Kagoshima.
Pottery. 575
503. Kuranosuke Kamochi, Hyogo. China-
ware. 576
504. Kurasuke Matsumoto, Saga. Stone-
ware. 575
505. Kusuke Matsumura, Nagoya. Porce-
lain candlestick. 577
506. Kutani Chinaware Company, Ishi-
kawa.
a Pottery. 575
b Flower vases; incense burners. 576
507. Kyoto Earthenware Company, Kyoto.
Chinaware. 576
508. Kyoto-Toki-Kawaisha, Kyoto.
Table set. 576
509. Knyhei Tamura, Hyogo. Stoneware.
575
510. Kyuhei Suya, Ishikawa. Porcelain.
577
511. Knykichi Iwao, Saga. Stoneware.
575
512. Kyuzaburo Sawada, Ishikawa. Por-
celain. 577
513. Kwanji Okamoto, Kyōto. Faience.
576
514. Kwanzō Fujii, Saga. Stoneware.
575
515. Majirō Takito, Nagoya. Stoneware.
575
516. Masaji Toyoshima, Nagasaki. Stone-
ware. 575
517. Masutaro Ido, Kanagawa. Stone-
ware. 575
518. Masukichi Kawamoto, Aichi. Vases.
576
519. Masuko Earthenware Company,
Tochigi. Tea pots. 576
520. Matao Yoshimura, Ishikawa.
Plaque; flower vases. 576
521. Matashiro Ota, Ishikawa. Porcelain.
577
522. Matazō Furukawa, Nagasaki. Stone-
ware. 575
523. Manjiro Takito, Nagoya. Porcelain
ware. 577
524. Manjiro Takito, Aichi. Flower vases.
576
525. Mannosuke Furukawa, Saga. Stone-
ware. 575
526. Manzaburo Yoshimuki, Osaka.
Chinaware. 576
527. Meisan Yabu, Osaka. Faience. 576
528. Mitsuji Kato, Gifu. Chinaware. 576
529. Mohei Keida, Kagoshima. Pottery.
575
530. Mokichi Arao, Osaka. Chinaware.
576
531. Morihachi Morishita, Ishikawa. Chi-
na ware. 576
532. Naoji Tsukamoto, Gifu. Pottery—
flower vases. 575
533. Naosaburo Yamamoto, Hyogo.
a Stoneware. 575
b China ware. 576
534. Naotsuku Nakajima, Kyoto. Stone-
ware. 575
535. Nibuzo Yoshiwara, Kumamoto. Chi-
na ware. 576
536. Nimatsu Uno, Kyoto. Stoneware.
575
537. Nisaku Nakagawa, Ishikawa. Por-
celain. 577
538. Oroshihayashi & Co., Gifu. China-
ware. 576
539. Otojiro Kato, Kyoto. Faience. 576
540. Otojiro Terabayashi, Kyoto. Porce-
lain ware. 577
541. Ouko Shimizu, Gifu. Pottery. 575
542. Riichi Egawa, Kyōto.
a Stoneware. 575
b Faience. 576
543. Rihei Kojima, Kyōto. Chinaware.
576
544. Rihei Okamoto, Hyogo. Stoneware.
575
545. Risaburō Momoda, Saga. Stoneware.
575
546. Risuke Hiraoka, Kyoto. Porcelain
ware. 577
547. Rokuhei Matsuda, Kyoto. Stone-
ware. 575
548. Rokunosuke Shimizu, Nagoya. China-
ware. 576
549. Rokurō Tanzan, Kyōto. Stoneware.
575
550. Ryūhei Yokoyama, Ishikawa. Porce-
lain. 577
551. Ryukichi Yamamoto, Saga. Stone-
ware. 575
552. Sahei Kato, Gifu. Chinaware. 576
553. Sahei Matsumoto.
a Incense burners. 576
b Porcelain. 577
554. Samurō Mizoue, Saga. Stoneware.
575
555. Sanda-Seiji-Kwaisha, Hyogo. Porce-
lain. 577
556. Seigo Matsumura, Saga. Stoneware.
575
557. Seiko Nagai, Kyōto. Faience flower
vases. 576
558. Sekisen Kitayama, Kyoto. Porcelain
ware. 577
559. Sekisen Shimizu, Gifu. Pottery. 575
560. Seiji Kwaisha, Saga.
a Stoneware. 575
b Hanging dish. 576
561. Seishi Naruse, Gifu. Ornament. 576
562. Seishichi Nishiura, Gifu. Chinaware.
576
563. Sennosuke Kusube, Kyōto. Stone-
ware. 575
564. Seto-Earthenware Association, Seto.
Semi-porcelain ware. 576
565. Setsuzan Akamaru, Ishikawa. China-
ware; flower vases. 576
566. Shinsuke Hayashi, Kyōto. Stone-
ware. 575
567. Shojiro Okura, Ishikawa. Umbrella
stand. 575
568. Shotaro Tamari, Kagoshima. Pot-
tery. 575

DEPARTMENT H.—MANUFACTURES.

569. Shou Jimura, Kyoto. Porcelain ware. 577
570. Shunji Aiwa, Nagoya. Stoneware. 575
571. Sobei Kinkozan, Kyoto.
a Pottery vase. 575
b Faience. 576
572. Sobei Shimada, Tokyo. Chinaware. 576
573. Sōjiro Karumi Tōkyō. Semi-porcelain. 576
574. Sotojiro Fujioka, Ishikawa. Stoneware; pottery. 575
575. Sosuke Fujii, Ishikawa. Porcelain. 577
576. Sosuke Namikawa, Tokyo. Decorated porcelain ware. 577
577. Sukesaburo Kato, Tokyo. Porcelain. 577
578. Takuzo Otsuka, Tokyo. Porcelain. 577
579. Tai & Co., Tokoname. Stoneware. 575
580. Tamekichi Ito, Tokyo. Salt castor. 576
581. Tamuro Okamoto, Ishikawa. Porcelain. 577
582. Tamimatsu Yamashita, Kanazawa. Porcelain. 577
583. Tanekichi Harada, Saga. Stoneware. 575
584. Tantosha, Osaka. Chinaware. 576
585. Tarijiro Nakamura, Kanazawa. Porcelain. 577
586. Tatsu Kanzan, Kyoto. Porcelain. 577
587. Tatsuichi Iwamatsu, Saga. Stoneware. 575
588. Teizo Agano, Kumamoto. Water pitcher. 576
589. Tetsuzo Kumagai, Gifu. Chinaware. 576
590. Tokuhe Nozaki, Ishikawa.
a Incense burners. 576
b Pottery. 575
591. Tokujiro Nobata, Kanazawa. Porcelain. 577
592. Tokubei Kato, Gifu. Chinaware. 576
593. Tokusuke Matsuo, Saga. Stoneware. 575
594. Tokoname Earthenware Association, Tokoname. Stone and earthenwares. 575
595. Tokoname Trading Company, Tokyo. Flower vases. 576
596. Tomoda Company, Ishikawa. Flower vases; chinaware. 576
597. Tomotame Terazawa, Kyoto. Stoneware. 575
598. Tomimatsu Tanaka, Tokyo. Porcelain. 577
599. Tomotarō Kajiwaru, Saga. Stoneware. 575
600. Tomotaro Kato, Tokyo.
a China. 576
b Porcelain. 577
601. Tosuke Ebina, Kyoto. Porcelain ware. 577
602. Tsuna Hattori, Tokyo. Stoneware. 575
603. Tozan Ito, Kyoto. Chinaware. 576
604. Toraichi Iwao, Saga. Stoneware. 575
605. Toramatsu Fukumatsu, Ishikawa. Porcelain. 577
606. Toramatsu Uchida, Ishikawa. Pottery. 575
607. Torasaburo Tsujimoto, Hyogo. Chinaware. 576
608. Torasaburo Tsujimoto, Osaka. Chinaware. 576
609. Torasaburō Yamaguchi, Saga. Stoneware. 575
610. Wahei Mukai, Ehime. Faience. 576
611. Yahei Kito, Nagoya. Porcelain ware. 577
612. Yakichi Kumagai, Gifu. Chinaware. 576
613. Yaichiro Agano, Kumamoto. Chinaware. 576
614. Yashiro Kimura, Ishikawa. Porcelain. 577
615. Yaoki Yoshiwara, Kumamoto. Chinaware. 576
616. Yashichi Uchino, Tokyo. Vases and plates. 576
617. Yasuke Fujita, Osaka. Flower vases. 576
618. Yasukiyo Tomoda, Ishikawa. Pottery. 575
619. Yasukichi Tashiro, Saga. Stoneware. 575
620. Yasunosuke Kitami, Kyōto. Stoneware. 575
621. Yasutaro Okumura, Kyoto. Chinaware. 576
622. Yohei Iwata, Hyogo. Flower vase. 576
623. Yohei Seifu, Kyoto. Semi-porcelain ware; flower vases; incense burner. 576
624. Yohei Taizan, Kyoto. Faience flower vases. 576
625. Yoichi Aoki, Saga. Stoneware. 575
626. Yoshijiro Kawai, Kanazawa. Porcelain. 577
627. Yoshiji Watano, Ishikawa. Porcelain. 577
628. Yoshihiko Tojo, Kyoto. Stoneware. 575
629. Yoshikuro Matsubara, Gifu. Chinaware. 576
630. Yoshitake Suwa, Ishikawa. Stoneware. 575
631. Yoshizō Shibata, Kyōto. Faience. 576
632. Zengoro Eiraku, Kyoto. Japanese tea set. 576
633. Zenjiro Nakamura, Kyoto. Flower vases. 576
634. Zenzaburo Tanaka, Tokyo. Semi-porcelain. 576
635. Zoji Sasada, Ishikawa. Porcelain. 577

GROUP 92.

636. Genshiro Shimizu, Gifu. Stone catch (for drawer). 582
Miscellaneous stone ornaments; flower pot.
637. Hyokichi Honho, Toyama. Carved marble ornaments. 582
638. Kojyuro Horie, Tokyo. Carved slate ware. 582
639. Kumajiro Hirata, Tokyo. Stone flower vases. 582

JAPAN.

GROUP 93.

640. Bunzaemon Kawaguchi, Nagoya. Cloisonne ware. 586
641. Chōsgorō Hirokami, Toyama. Art metal work. 585
642. Chōshichi Jyōda, Toyama. Art metal work. 585
643. Chōzaburō Matsuyama, Toyama. Art metal work. 585
644. Chyoichiro Kanamori, Toyama. Art metal work; incense burner. 585
645. Chyōkichi Suzuki, Tōkyō. Art metal work. 585
646. Chyubei Takeuchi, Aichi. Cloisonne ware. 586
647. Chyuhei Nakagawa, Toyama. Art metal work (flower vases, plaque). 585
648. Commercial and Manufacturing Bureau. Specimens showing process of manufacturing metal work. 585
649. Eisuke Jyōmi, Kyōto. Art metal work. 585
650. Eiziro Kajima, Tokyo. Art metal work. 585
651. Fusajiro Takayanagi, Toyama. Art metal work, flower vases; incense burners. 586
652. Genemon Ishida, Aichi. Cloisonne ware. 586
653. Gihei Seki, Toyama. Art metal work. 585
654. Gimbei Kuroha, Ibaraki. Art metal work (card receivers, flower vases, incense burners, frames, etc.). 585
655. Ginjiro Sawada, Tokyo. Copper ware. 585
656. Hachizaemon Hayashi, Nagoya. Cloisonne ware. 586
657. Hanemon Matsuta, Iahikawa. Copper ware. 585
658. Heizō Seki, Toyama. Art metal work. 585
659. Hirosuke Hayashi, Nagoya. Cloisonne ware. 586
660. Hoeisha, Aichi. Cloisonne ware. 586
661. Ichihei Kajima. Art metal work. 585
662. Ichibei Noda, Kanagawa. Cloisonne ware. 586
663. Ichitaro Morimura, Tokyo. Copper plates. 585
664. Ihei Fujii, Kyoto. Silver incense burner. 585
665. Iwakichi Ōtsuka, Kyōto. Niello work. 588
666. Izaemon Mikami, Kyōto. Cloisonne ware. 586
667. Jinnoei Ōta, Nagoya. Cloisonne ware. 586
668. Jisaburo Takayanagi, Toyama. Art metal work (flower vases, incense burners). 585
669. Jisuka Komma, Toyama. Art metal work. 585
670. Jisuke Kotake, Toyama. Art metal work. 585
671. Jitsuemon Satō, Nagoya. Cloisonne ware. 586
672. Jyubei Ando, Aichi. Cloisonne ware. 586
673. Jyubei Andō, Nagoya. Cloisonne ware. 586
674. Jyujiro Koizumi, Ibaraki. Art metal work. 585
675. Jyutaro Hirata, Tokyo. Art metal work. 585
676. Kahei Okada, Nagoya. Cloisonne ware. 586
677. Kahei Yamazaki, Toyama. Art metal work. 585
678. Kai Tsuda, Kyōto. Cloisonne ware. 586
679. Kanazawa Dōki-Kwaisha, Ishihawa. Art metal work. 585
680. Kansai Trading Company, Kyoto. *a* Art metal work. 585
b Cloisonne ware. 586
681. Kanzaemon Kakuha, Toyama. Art metal work. 585
682. Kashichiro, Iwashiro, Toyama. Art metal work, card receiver. 585
683. Kasuke Itō, Nagoya. Cloisonne vase; knife handles. 586
684. Katsuyoshi Shōami, Okayama. Incense burners. 585
685. Kaziro Kobayashi, Tokyo. Art metal work. 585
686. Keitarō Nozaki, Toyama. Art metal work. 585
687. Kichibei Nakamura, Tokyo. Card receiver. 585
688. Kichigoro Suzuki, Tokyo. Art metal work. 585
689. Kichijirō Tanaka, Kanagawa. Cloisonne ware. 586
690. Kingo Kotsuka, Nagoya. Cloisonne ware. 586
691. Kinzyūrō Adachi, Nagoya. Cloisonne ware. 586
692. Kisuke Kato, Toyama. Art metal work, incense burner. 585
693. Kohei Inami, Toyama. Art metal work (incense burner). 585
694. Kumakichi Shimizu, Nagoya. Cloisonne ware. 586
695. Komakichi Tsugane, Nagoya. Cloisonne ware. 586
696. Kokan Murata, Kyoto. Art metal work. 585
697. Kyubei Noguchi, Osaka. Art metal work. 585
698. Masafusa Tsubai, Nagoya. Cloisonne ware. 586
699. Masakichi Yoshimura, Toyama. Art metal work (card receiver). 585
700. Masanori Okadera, Nagoya. Cloisonne ware. 586
701. Masaru Miyamoto, Tokyo. Art metal work. 585
702. Masubei Tsukamoto, Nagoya. Cloisonne ware. 586
703. Masuemon Itō, Kanagawa. Cloisonne ware. 586
704. Matajirō Nakano, Toyama. Art metal work. 585
705. Mosuka Kuroda, Nagoya. Cloisonne ware. 586
706. Motokichi Hongo, Toyama. Art metal work (flowered vase). 585
707. Naoji Sugimoto, Toyama. Art metal work. 585
708. Naozaburō Yomamoto, Hyōgo. Cloisonne ware. 586
709. Nobori Nogawa. Art metal work. 585

DEPARTMENT H.—MANUFACTURES.

710. Rihei Shiosaki, Toyama. Art metal work. 585
711. Rihei Matsumura, Toyama. Art metal work. 585
712. Rokuhei Matsumura, Toyama. Art metal work. 585
713. Ryusuke Hirano, Ibaraki. Art metal work. 585
714. Saburoemon Okamura, Toyama. Art metal work; flower vases. 585
715. Saburoemon Okamura, Toyama. Art metal work; flower vases. 585
716. Sadabumi Ito, Tokyo. Art metal work. 585
717. Sadajirō Ametani, Toyama. Art metal work. 585
718. Sadashichi Takao, Osaka. Art metal work. 585
719. Sahei Doi, Tokyo. Copper vases. 585
720. Saijirō Nomori, Toyama. Art metal work. 585
721. Sakujirō Nakano, Toyama. Art metal work (incense burner). 585
722. Sanemon Ohashi, Toyama. Art metal work; flower vases, incense burner, etc. 585
723. Satarō Kaji, Aichi. Cloisonne ware. 586
724. Seisuke Ikeda, Kyoto. Art metal work. 585
725. Seisuke Ikeda, Kyōto. Cloisonne ware. 586
726. Seizirō Shōami, Okayama. Frame. 585
727. Sentarō Satō, Kanagawa. Cloisonne ware. 586
728. Seizaburō Kodama, Nagoya. Cloisonne ware. 586
729. Seizaburo Takakawa, Toyama. Art metal work, flower vases; card receivers. 585
730. Seizaburo Tekebe, Toyama. Art metal work; incense burners. 585
731. Seizaburo Yoshikubo, Toyama. Art metal work. 585
732. Shibatarō Kawade, Nagoya. Cloisonne ware. 586
733. Shichiho Inaba, Kyōto. Cloisonne ware. 586
734. Shinji Kugitani, Kumamoto. Art metal work. 585
735. Shimetarō Kumeno, Nagoya. Cloisonne ware. 586
736. Shirōzaemon Suzuki, Kanagawa. Cloisonne ware. 586
737. Shyōichirō Nishimura. Art metal work. 585
738. Shyōjirō Okazaki, Tōkyō. Art metal work. 585
739. Shyōbei Tomiki, Nagoya. Cloisonne ware. 586
740. Shoichiro Kobayashi, Tōkyō. Copper ware. 585
741. Shōzaburō Godo, Kanagawa. Cloisonne ware. 586
742. Sōshichi Shibayama. Art metal work. 585
743. Sosuke Namikawa, Tōkyō.
 a Cloisonne ware. 586
 b Enamel ware. 587
744. Sotokichi Takakawa, Toyama. Art metal work (flower vases). 585
745. Tadamasa Hyashi, Tōkyō.
 a Art metal work. 585
 b Cloisonne ware. 586
746. Tadasaburō Hattori, Nagoya. Cloisonne ware. 586
747. Tadeichi Shiwotsu, Shimane. Cuff buttons. 585
748. Taketaro Takeda, Toyama. Art metal work; flower vases. 585
749. Takisaburō Tsukamoto, Nagoya. Cloisonne ware. 586
750. Takuzo Otsuka, Tokyo. Art metal work. 585
751. Tarobei Yamanaka, Osaka. Art metal work. 585
752. Tatsukichi Ebata, Ibaraki. Art metal work; incense burner. 585
753. Tatsutaro Takemura, Toyama. Art metal work; incense burners. 585
754. Tetsugoro Kato, Tokyo. Art metal work. 585
755. Tokichi Nakahashi, Toyama. Art metal work. 585
756. Tokumatsu Chimura, Kanagawa. Cloisonne ware. 586
757. Tokuzo Otsuka, Tokyo. Cloisonne vases. 586
758. Tomojiro Kaji, Toyama. Art metal work; incense burners. 585
759. Toramatsu Suzuki, Nagoya. Cloisonne ware. 586
760. Torasaburō Abe, Nagoya. Cloisonne ware. 586
761. Toshimitsu Yano, Tokyo.
 a Art metal work. 585
 b Cloisonne ware. 586
762. Toyosaburō Sano, Kyōto. Cloisonne ware. 586
763. Toyoshirō Itō, Nagoya. Cloisonne ware. 586
764. Tsunekichi Ogawa, Tokyo. Art metal work. 585
765. Tsunesaburō Yoshioka, Hiroshima. Art metal work. 585
766. Uichi Sekizawa, Toyama. Art metal work. 585
767. Uichi Sekizawa, Toyama. Art metal work. 585
768. Unosuke Nakamura, Osaka. Art metal work. 585
769. Ushisaburo Miyabe, Kyoto. Art metal work. 585
770. Yahei Ozeki, Tokyo. Art metal work. 585
771. Yajirō Kagawa, Tōkyō. Cloisonne ware. 586
772. Yaroku Suzuki, Nagoya. Cloisonne ware. 586
773. Yasuhei Tanabe, Kumamoto. Incense burner. 586
774. Yasutarō Futatasuka, Toyama. Art metal work. 585
775. Yasuyuki Namikawa, Kyōto. Cloisonne ware. 586
776. Yohei Iwata, Hyogo. Bronze ware. 585
777. Yohei Kawaguchi, Tokyo. Art metal work. 585
778. Yoichi Kagawa, Shimane. Chased metal work. 585
779. Yosaburō Honda, Aichi. Cloisonne ware. 585
780. Yosaburō Honda, Nagoya. Cloisonne ware. 585

JAPAN.

781. Yoshichirō Masuda, Toyama. Art metal work. 585
 782. Yoshitearō Kawano, Kanagawa. Cloisonne ware. 586
 783. Yososhichi Nakasugi, Toyama. Art metal work. 585
 784. Yoshimori Kanaiwa, Toyama. Art metal work (ornamental article). 585
 785. Zenroku Fujita, Toyama. Art metal work. 585
 786. Zenshichi Kyōi, Toyama. Art metal work. 585
 787. Zenshichi Morimoto, Nagoya. Cloisonne ware. 586
 788. Zenshirō Yoshida, Nagoya. Cloisonne ware. 586
 789. Zensuke Tsukahara, Toyama. Art metal work (flower vases, incense burners). 585
 790. Zimbei Tsukamoto, Nagoya. Cloisonne ware. 586

GROUP 94.

791. Magoichi Shimada, Ōsaka. Glassware. 592
 792. Shingirō Tanaka, Ōsaka. Decorated glass and tumblers. 592

GROUP 96.

793. Biun Nishimaki, Tōkyō. Wood carving. 598
 794. Chozaburo Yamada, Ishikawa. Copper articles. 601
 795. Chozo Watanabe, Kanagawa. Carved copper work. 601
 796. Chyokichi Suzuki, Tokyo. Copper incense burner; vases. 601
 797. Chyujiro Izumi, Shiga. Carvings. 598
 798. Denkichi Ikeda, Tokyo. Ivory carving. 599
 799. Doki-Kaisha, Ishikawa. Flower vases; incense burners (copper). 601
 800. Dosan Asahi & Eizo Ōkioka, Tokyo. Carved woodwork. 598
 801. Eisho Kurokaw, Tokyo. Incense burner. 601
 802. Eisuke Jyomi, Kyoto. Metal carving and chiseling. 601
 803. Eisuke Miyao, Tokyo. Metallic carving. 601
 804. Eizaburo Omiri, Ishikawa. Carved woodwork. 598
 805. Fusagoro Kohara, Ōsaka. Wood carving. 598
 806. Fusakichi Nakaya, Ōsaka. Wood carving. 598
 807. Gennojyō Yoskida, Kyōtō. Wood carving. 598
 808. Genroku Mizuno, Ishikawa. Metal carving and chiseling. 601
 809. Gihei Honho, Toyama. Wood carving. 598
 810. Ginziro Swanada, Tokyo. Ivory carving. 599
 811. Gitaro Honho, Toyama. Wood carving. 598
 812. Gorosaburo Kanaya, Kyoto. Metal carving and chiseling. 601
 813. Hakuzitsu Ono, Tokyo. Ivory carving. 599
 814. Hanbei Koshino, Ishikawa. Metal work. 601

815. Hanun Hashii, Tottori. Carved work. 598
 816. Hatsu Asahi, Tokyo. Carved woodwork. 599
 817. Hideaki Tsukada, Tokyo. Metallic work. 601
 818. Hikobei Tomei, Kyoto. Copper ware. 601
 819. Hikokuro Miyasaki, Ishikawa. Flower vases; plaque (copper). 601
 820. Hisaichi Takeuchi, Tōkyō. Wood carving. 598
 821. Hisamitsu Yano, Tōkyō. Card cases. 598
 822. Hoen Okawa, Tokyo. Metallic carving and chiseling. 601
 823. Hyokichi Honho, Toyama. Wood carving. 598
 824. Ichimatsu Ōno, Ōsaka. Wood carving. 598
 825. Ichiraku Matsumoto, Tokyo. Metallic work. 601
 826. Ichitarō Morimura, Tōkyō.
 a Wood carving. 598
 b Sculpture in porcelain. 603
 827. Ihei Fujiwara, Ōsaka. Ivory inro. 599
 828. Issei Hasegawa, Tokyo. Card receiver. 598
 829. Isshi Hashimoto, Kyoto. Metal carving and chiseling. 601
 830. Issyu Sato, Tokyo. Metallic work. 601
 831. Jiemon Miyachi, Ishikawa. Ornament. 601
 832. Jiromatsu Kashida, Ishikawa. Incense burner; plaque (copper). 601
 833. Jyunosuke Arakawa, Shimane. Wood carved ornament. 598
 834. Jyutaro Hirata, Tokyo. 601
 835. Kahei Shimaseki, Tokyo. Metallic work. 601
 836. Kambei Takagi, Tokyo. Ivory carving. 599
 837. Kambei Takagi, Tōkyō. Wood carving. 598
 838. Kamataro Goto, Kanagawa. Carved woodwork. 598
 839. Kametaro Adachi, Shimane. Wood carving. 598
 840. Kanejiro Kaneda, Tokyo. Ivory carving. 599
 841. Kansai Trading Company, Kyōtō.
 a Wood carving. 598
 b Ivory carving. 599
 c Bamboo carving. 600
 d Metal carving. 601
 842. Kashichi Sano, Tokyo. Metallic work. 601
 843. Katsuhiko Kagawa, Tokyo. Metallic carving and chiseling. 601
 844. Katsujiro Tanida, Ōsaka. Ivory carving. 599
 845. Katsusaburo Kitazawa, Kanagawa. Carved woodwork. 598
 846. Katsuyoshi Ito, Tokyo. Card receiver. 598
 847. Kennosuke Kihara, Tokyo. Metallic carving. 601
 848. Kenzaburo Kurami, Ishikawa. Card receiver (copper). 601
 849. Kichibei Inoue, Kyoto. Metal carving and chiseling. 601

DEPARTMENT H.—MANUFACTURES.

850. Kichibei Nakamura, Tokyo. 599
a Ivory cigar cases. 601
b Metallic work. 601
851. Kichigoro Murata, Tokyo. Ivory 599
 carving. 601
852. Kichiji Watano, Ishikawa. Carved 599
 metal work. 601
853. Kichiji Watano, Kanagawa. Carved 599
 copper work. 601
854. Kichiemon Satō, Shizuoka. Bamboo 600
 work. 600
855. Kihachiro Noda, Tokyo. Flower 601
 vases. 601
856. Kihei Ishii, Tokyo. 599
a Ivory carving. 601
b Metal work. 601
857. Kiyoyuki Ozaki, Tokyo. Incense 601
 case. 601
858. Kimitaro Kaneda, Tokyo. Ivory carv- 599
 ing. 601
859. Kintaro Sugiyama, Tokyo. Metallic 601
 work. 601
860. Kinzaburo Eguchi, Aichi. Wood 598
 carving. 601
861. Kisaburo Matsumoto, Hiroshima. 598
 Wood carving. 601
862. Kisai Yamada, Tōkyō. Wood carv- 598
 ing. 601
863. Kisaku Honho, Toyama. Wood carv- 598
 ing. 601
864. Kitaro Goto, Kanagawa. Carved 598
 woodwork. 601
865. Kitaro Mizutani, Ishikawa. Incense 601
 burner. 601
866. Koji Yamakawa, Ishikawa. Copper 601
 ware. 601
867. Koan Watanabe, Toyama. Carved 598
 wood ornament. 601
868. Kojiro Kobayashi, Tokyo. Ivory 599
 carving. 601
869. Komei Ishikawa, Tokyo. Carved 598
 woodwork. 601
870. Kosai Otsuka, Tokyo. Ivory carving. 599
 601
871. Kosaku Yamakawa, Ishikawa. Or- 601
 nament (copper). 601
872. Kōtaku Shigezawa, Tōkyō. Wood 598
 carving. 601
873. Kotaro Kumagai, Kyoto. Metal carv- 601
 ing and chiseling. 601
874. Koun Takamura, Tokyo. Carved 598
 woodwork. 601
875. Koun Takamira, Tōkyō. Wood carv- 598
 ing. 601
876. Kumakichi Takenaka, Ōsaka. Wood 598
 carving. 601
877. Kumejiro Tamai, Tokyo. Metallic 601
 carving. 601
878. Kuninosuke Soma, Tokyo. Carved 599
 woodwork. 601
879. Kunitaro Kaneda, Tokyo. Ivory carv- 599
 ing. 601
880. Kuytarō Sano, Ishikawa. Plaque. 601
881. Magoemon Izuni, Shiga. Carving. 598
 601
882. Man Shibahara, Tokyo. Metallic 601
 work. 601
883. Masaharu Matsumoto, Tōkyō. Wood 598
 carving. 601
884. Masakichi Saito, Tokyo. Metallic 601
 carving and chiseling. 601
885. Masachika Ota, Tokyo. Metallic 601
 work. 601
886. Masayoski Koyano, Tokyo. Metallic 601
 work. 601
887. Matasaburo Morii, Tokyo. Metallic 601
 work. 601
888. Misaburo Tomizawa, Tokyo. Ivory 599
 carving. 601
889. Mitsuaki Ishikawa, Tōkyō. Wood 598
 carving. 601
890. Mohei Hiratsuka, Tokyo. Incense 601
 burner. 601
891. Moichiro Arakawa, Shimane. Wood 598
 carved ornaments. 601
892. Morihachi Morishita, Ishikawa. 598
 Carved woodwork. 601
893. Morihachi Morishita, Kanazawa. 601
 Metal ornaments. 601
894. Naotaro Kiriyaama, Ishikawa. Copper 601
 ware. 601
895. Natsuo Kano, Tokyo. Metal carv- 601
 ing. 601
896. Nobuyoshi Watanabe, Kanagawa. 601
 Plaque. 601
897. Rando Miyata, Tokyo. Metallic carv- 601
 ing. 601
898. Rikkei Oganem, Tokyo. Metallic 601
 work. 601
899. Rihei Okamoto, Kobe. Wood carv- 598
 ing. 601
900. Rihei Shingaya, Kanagawa. 599
a Carved ivory. 601
b Metal work. 601
901. Ryoun Mitsuboshi, Tōkyō. Wood 598
 carving. 601
902. Ryuhei Yokoyama, Ishikawa. Copper 601
 work. 601
903. Ryutarō Goto, Kanagawa. Carved 598
 woodwork. 601
904. Sadakichi Nomura, Tokyo. Metal 601
 carving and chiseling. 601
905. Sadanosuke Yasaki, Yokyo. Wood 598
 carving. 601
906. Sadayuki Gotō, Tōkyō. Wood carv- 598
 ing. 601
907. Sashichi Asada, Tokyo. Metallic 601
 work. 601
908. Sawazo Takenaka, Tottori. Bamboo 600
 carving. 601
909. Seiko Sawaki, Osaka. Ivory carv- 599
 ing. 601
910. Sekka Shima, Osaka. Wood carv- 598
 ing. 601
911. Seishyu Makino, Tokyo. Metallic 601
 work. 601
912. Seikichi Koyama, Tokyo. Metal 601
 carving. 601
913. Seizaemon Kato, Aichi. Wood carv- 598
 ing. 601
914. Seizaimon Yonezawa, Ishika. Candle- 601
 stick. 601
915. Seiziro Yonagawa, Tokyo. 599
a Ivory carving. 599
b Card receiver. 601
916. Senamtsu Adachi, Tottori. Carving. 598
 601
917. Shinsuke Hayashi, Kōytō. Wood 598
 carving. 601
918. Shinzo Yoshida, Tokyo. Metal carv- 601
 ing and chiseling. 601
919. Shinzaburo Hashimoto, Tokyo. Ivory 599
 carving. 601
920. Shyōbei Ishiseki, Tōkyō. Wood carv- 598
 ing. 601
921. Shyoichiro Yamanaka, Tokyo. Cop- 601
 per work. 601

JAPAN.

922. Shyomin Unno, Tokyo. Metal carving. 601
923. Shyotaro Okano, Kyoto. Metal carving and chiseling. 601
924. Shyotaro Tamari, Kagoshima. Bamboo incised work. 600
925. Shyunmei Shimamura. Carved wood-work. 598
926. Sojiro Kanezawa, Tokyo. Ivory carving. 599
927. Somin Okawa, Tokyo. Ivory carving. 599
928. Sonosuke Hirata, Tokyo. Metallic work. 601
929. Soshichi Amemiya, Kyoto. Metal carving and chiseling. 601
930. Sozaburo Sumita, Ehime. Cane and screens. 598
931. Sukeji Kondo, Ibaraki. Metal carving. 601
932. Susuke Tanaka, Kyōto. Wood carving. 598
933. Taizen Nakanishi, Kumamoto. Carved bamboo root; flower vases. 600
934. Takeziro Okemoto, Tokyo. Incense burner. 601
935. Takejiro Kano, Tokyo. Bamboo carving. 600
936. Takijiro Kutsutani, Tokyo. Bamboo incised work. 600
937. Takuzo Otsuka, Tokyo. Metallic carving and chiseling. 601
938. Tamuro Okamoto, Ishikawa. Carved metal work. 601
939. Teijiro Ozeki, Kanagawa. Carved metal work. 601
940. Teikan Okawa, Tokyo. Metallic carving and chiseling. 601
941. Teishyo Namekawa, Tokyo. Incense burner. 601
942. Toen Morikawa, Kyoto. Carved woodwork. 598
943. Tomigoro Yotsugi, Tokyo. Ivory carving. 599
944. Tomokichi Fujitani, Ishikawa. Ornament. 601
945. Tokujirō Tatasuike, Kyōto. Wood carving. 598
946. Toranoyjo Izumi, Tokyo. Metal carving. 601
947. Toshiaki Shimamura, Tōkyō. Wood carving. 598
948. Toshimitsu Yamagiwa, Tokyo. Ivory carving. 599
949. Toyokichi Nakatani, Osaka. Wood carving. 598
950. Toyoo Aikawa, Ishikawa. Plaque (carved). 598
951. Toyoshichi Kato, Tokyo. Ivory carving. 599
952. Toyotaro Kusakari, Tokyo.
a Ivory carving. 599
b Silverware. 601
953. Toyotaro Takahata, Ishikawa. Incense burner; plaque. 601
954. Tsunejiro Matsubara, Osaka. Ivory carving. 599
955. Tsunejiro Morishita, Hyogo. Bamboo work. 600
956. Tsuemon Kurotani, Tokyo. Metallic work. 601
957. Tsunetaro Kawazoe, Tokyo. Ivory carving. 599

958. Tsunesaburo Kaneko, Tokyo. Incense case. 601
959. Tsuyoshi Murakami, Osaka. Sculpture. 602
960. Yaezo Marunaka, Ishikawa. Copper ware. 601
961. Yajihei Ishii, Kanagawa.
a Carved ivory work. 599
b Carved copper work. 601
962. Yasubei Nishimura, Kyoto. Metal carving and chiseling. 601
963. Yasubei Yamamoto, Shizuoka. Bamboo work. 600
964. Yasubei Yoshida, Kyoto. Metal carving and chiseling. 601
965. Yasunosuke Mizoguchi, Kyoto. Metal carving and chiseling. 601
966. Yasutaro Hiraoka, Ishikawa. Art metal work. 601
967. Yasuhei Shimizu, Toyama. Wood carving. 598
968. Yasuke Fujita, Osaka. Wood carving. 598
969. Yokichi Konoike, Kanagawa. Carved metal work. 601
970. Yoshikiyo Aoki, Kyoto. Metal carving and chiseling. 601
971. Yoshitaro Hirano, Ishikawa. Carved woodwork. 598
972. Yukimune Sugiura, Tokyo. Metal carving. 601
973. Zoroku Hata, Kyoto. Metal carving and chiseling. 601
974. Zuium Yamamoto, Tōkyō. Wood carving. 598

GROUP 97.

975. Eijiro Kashima, Tokyo. Cigar case and receiver. 607
976. Eitaro Kugitani, Kumamoto. Watch chains. 607
977. Hikobei Tomie, Kyōto. Silver hanging incense burner. 604
978. Kansai Trading Company, Kyōto.
a Wares of mixed metals. 608
b Antimony ware. 611
979. Kenji Igarashi, Tokyo. Iron ware. 608
980. Kichigoro Suzuki, Tokyo. Zinc ware. 609
981. Kisaburo Matsumoto and nine others, Hiroshima. Spoons. 606
982. Kisaburo Nishio, Tokyo.
a Copper tray. 605
b Copper spoons. 606
c Copper ware. 608
983. Nobori Nogawa, Kyoto. Silverware. 607
984. Shinsuke Hayashi, Kyoto. Silverware incensers. 604
985. Takijiro Kutsutani, Tokyo. Chate-lain. 607
986. Takuzo Otsuka, Tokyo. Silver bowls. 605
987. Teijiro Ozeki, Kanagawa. Gold and silver ware. 604
988. Toyotaro Kusakari, Tokyo.
a Silver spoons. 607
b Nickel ware. 610
c Buttons. 612
989. Toyotaro Kusakaie, Tokyo. Plated ware. 611
990. Toyotaro Kusagawa, Tōkyō. Table silver. 605

DEPARTMENT H.—MANUFACTURES.

991. Yasuhei Tanabe, Kumamoto. Watch chains. 607
 992. Zembei Kobayashi, Tokyo. Miscellaneous metal articles. 607

GROUP 98.

993. Aizo Tsuchiya, Yamanashi. Ornaments, charms, flower vases, etc. 614
 994. Chōjirō Okada, Tōkyō. Ornaments for the person. 612
 995. Kajizō Seya, Nara. Breast pins. 612
 996. Kambei Takagi, Tōkyō. Crystal ornaments. 614
 997. Kanejirō Aibara, Tōkyō.
 a Gold necklace. 612
 b Rings and cuff buttons. 614
 998. Katsuhiro Kagawa, Tōkyō. Cuff buttons and pins. 612
 999. Kichibei Nakamura, Tōkyō. Ornaments for the person. 612
 1000. Kumajirō Ichinose, Yamanashi. Ornaments. 614
 1001. Matsuhirō Tsuchiya, Yamanashi. Ornaments, rings, charms, etc. 614
 1002. Manzarburo Muramatsu, Tōkyō. Watch chains and ornaments. 612
 1003. Minosuke Uruma, Tōkyō. Bracelets and rings. 612
 1004. Mitsuaki Katō, Tōkyō. Ornaments for the person. 612
 1005. Muneyoshi Nagata, Yamanashi. Ornaments, flower vases, incenser, etc. 614
 1006. Muneyoshi Oya, Yamanashi. Ornaments, paper weights, charms, etc. 614
 1007. Precious Stone Work Company, Fukui. Agate ornaments. 614
 1008. Sadakichi Nomura, Tōkyō. Cuff buttons. 612
 1009. Seijirō Tanaka, Yamanashi. Jewelry, magnifying lenses, etc. 614
 1010. Seijirō Yanagawa, Tōkyō. Ornaments for the person. 612
 1011. Shinzō Yoshida, Ōsaka. Rings, bracelets and buttons. 612
 1012. Takijirō Kutsutani, Tōkyō. Jewelry and ornaments. 612
 1013. Tōzaemon Tomita, Tōkyō. Gold ornaments for the person. 612
 1014. Yasuhei Shimizu, Toyama. Jewels. 612

GROUP 99.

1015. Yasubei Yamamoto, Shizuoka. Clock box. 619

GROUP 100.

1016. Aziburo Fukazawa, Gumma. Raw silk. 625
 1017. Asahi Kan, Miyaga. Raw silk. 625
 1018. Asajiro Suzuki, Gumma. Silk fabric. 629
 1019. Asashichi Kimura, Tochigi. Silk fabric. 629
 1020. Awataba Raw Silk Association, Fukui. Raw silk. 625
 1021. Benjiro Ito, Yamanashi. Silk handkerchiefs. 630
 1022. Benjiro Suto, Gumma.
 a Silk fabric. 627
 b Silk fabric. 630

1023. Buemon Inoue, Yamanashi. Silk handkerchiefs. 630
 1024. Buheiji Yamazaki, Kyoto. Crapes. 630
 1025. Bunjiro Ichida, Kyoto. Silk fabric. 628
 1026. Bunjiro Sugihara, Kyoto. Crapes. 630
 1027. Bunkichiro Shiina, Gumma. Silk fabric. 629
 1028. Bunnosuke Shimizu, Kyoto. Gold thread and imitations. 626
 1029. Bunzaemon Kakiage, Gumma.
 a Silk fabric. 629
 b Scarfs. 630
 1030. Bunzo Kanno, Yamagata. Raw silk. 625
 1031. Chobei Hisae, Kyoto. Silk fabric. 629
 1032. Chobei Okamura, Kyoto. Silk fabric. 629
 1033. Chobei Tase, Yamagata. Raw silk. 625
 1034. Chogoro Fuse, Yamagata. Raw silk. 625
 1035. Chojyuro Kawashima, Tochigi. Silk fabric. 629
 1036. Chosin Company, Nagano. Raw silk. 625
 1037. Chōtarō Hoshino, Gumma. Raw silk. 625
 1038. Choyo Company, Nagano. Raw silk. 625
 1039. Chozaburo Kunogise, Gumma. Silk gauze. 630
 1040. Chuji Inoue, Gumma. Silk fabric. 629
 1041. Chujiro Otani, Fukushima. Silk fabrics. 627
 1042. Chusuke Iizuka, Akita. Raw silk. 625
 1043. Chusuke Okajima, Tochigi. Silk fabric. 627
 1044. Chuzaburo Kimura, Shiga. Silk fabric. 630
 1045. Commercial and Manufacturing Bureau. Specimens showing process of manufacturing silk fabrics. 627
 1046. Daijiro Nakajima, Gumma. Silk fabric. 627
 1047. Daijiro Takei, Nagano. Raw silk. 625
 1048. Daijiro Tomita, Aichi. Silk fabric. 629
 1049. Dai Nippon Wild Silk Worms Company, Nagano. Raw silk. 625
 1050. Daisei Co., Nagano. Raw silk. 625
 1051. Dai Takahashi, Gumma.
 a Silk fabric. 627
 b Figured silk. 629
 1052. Danji Suzuki, Gumma. Silk fabric. 629
 1053. Dembei Koshimitsu, Yokohama. Silk fabrics. 529
 1054. Dengo Ishiwarra, Gumma. Silk fabric. 629
 1055. Denichiro Aikawa, Yamanashi. Kaiki (silk fabric). 627
 1056. Denjiro Kaneko, Gumma. Silk fabric. 629
 1057. Denzichi Tomioka, Chiba. Raw silk. 625

JAPAN.

1058. Denshichiro Hoshino, Gumma. Silk gauze. 630
1059. Eastern Gaco Company, Nagano. Raw silk. 625
1060. Ebi Sericulture Company, Miyazaki. Raw silk. 625
1061. Eiji Eudo, Yamagata. Raw silk. 625
- 1061a. Eijiro Takaragi, Kyoto. Silk fabric. 629
1062. Eisuke Naoki, Kyoto. Silk fabric. 629
1063. Eisuke Yajima, Yamanashi. Raw silk. 625
1064. Eizaburo Suwa, Kyoto. Silk fabric. 629
1065. Eizo Yamato, Gumma. Silk fabric. 629
1066. Fujitaro Suto, Gumma. Silk fabric. 629
1067. Fukuda Sericulture Union, Fukushima. Silk fabric. 627
1068. Fukui Silk Manufacturing Company, Fukui. Silk fabric. 630
1069. Fukutaro Morita, Gumma. Silk fabric. 627
1070. Fushiguro Sericulture Company, Fukushima. Floss (silk). 627
1071. Gako Company, Nagano. Raw silk. 625
1072. Gempachirō Inouye, Tochigi. Raw Silk. 625
1073. Genchyu Hoshino, Yamanashi. Silk handkerchiefs. 630
1074. Gene Inoue, Gifu. Raw silk. 625
1075. Gengo Koyama, Gumma. Silk fabric. 629
1076. Genjiro Okonoji, Gumma. Silk fabric. 629
1077. Genjiro Takeshi, Gumma. Silk fabric. 629
1078. Gennosuke Kitaoka, Kyoto. Silk fabric. 629
1079. Genroku Shibata, Tokyo. Crapes. 630
1080. Gensaku Osawa, Gumma. Silk fabric. 628
1081. Genshichi Shibata, Shiga. Silk fabric. 630
1082. Genzaemon Endo, Yamagata. Silk fabric. 627
1083. Genzaemon Kobayashi, Kanagawa. Silk fabric. 629
1084. Gihachiro Hamabe, Kyoto. Silk fabric. 629
1085. Gihachi Sonoda, Gumma. Silk fabric. 629
1086. Gihei Hashinaka, Kyoto. Silk fabric. 630
1087. Gihei Shimoyama, Gumma. Silk fabric. 627
1088. Gisaburo Okabe, Saitama. Plain woven silk. 628
1089. Gisaburo Osawa, Gifu. Silk fabric. 630
1090. Gisaburo Takayanagi, Gumma. Silk fabric. 629
1091. Gisaburo Watanaba, Gumma. Silk fabric. 629
1092. Gogyo Company, Akita. Raw silk. 625
1093. Goroemon Kobayashi, Yamanashi. Kaiki (silk fabric). 627
1094. Hachibei Iwai, Miyagi. *a* Raw silk. 652
b Curtains. 629
1095. Hachirō Tokue, Gumma. Raw silk. 625
1096. Hakata Fabric Co., Fukuoka. Handkerchiefs. 630
1097. Hakata Fabric Union, Fukuoka. Silk fabric. 628
1098. Hakkaku Company, Nagano. Raw silk. 625
1099. Hambei Nakamura, Kyoto. Silk fabric. 629
1100. Hambei Shimizu, Kyoto. Silk fabric. 629
1101. Hambei Suzuki, Yamanashi. Kaiki (silk fabric). 627
1102. Hanshiro Yamato, Gumma. Silk fabrics. 629
1103. Hanya Shinagawa, Gumma. Silk fabric. 629
1104. Heibei Imanishi, Kyoto. Silk fabric. 628
1105. Heibei Watatani, Yokohama. Handkerchiefs. 630
1106. Heiemon Ouchi, Kyoto. Crapes. 630
1107. Heitachi Kitagawa, Kyoto. Silk fabric. 629
1108. Heijyuro Hiramoto, Tochigi. Fabric woven with silk and cotton. 629
1109. Heikichi Hoshino, Gumma. Satin. 629
1110. Heikichi Tsuji, Akita. Silk fabric. 629
1111. Heinai Hasegawa, Yamagata. Raw silk. 629
1112. Heizaburo Goto, Gumma. Silk fabric. 629
1113. Heizo Ishizu, Shimane. Raw silk. 625
1114. Heizo Suzuki, Gumma. Silk fabric. 629
1115. Hikohei Masuda, Gumma. Silk fabric. 629
1116. Hikojiro Otani, Toyama. Silk fabric. 628
1117. Hikoshichi Kawase, Gumma. Silk fabric woven with cotton. 628
1118. Hikotaro Nakajima, Gumma. Silk fabrics. 630
1119. Hikozaemon Inoue, Yamanashi. Silk handkerchiefs. 630
1120. Hirochika Hosokawa, Nagano. Raw silk. 625
1121. Hiromitsu Amamiya, Yamanashi. Raw silk. 625
1122. Hinodematsu Company, Nagano. Raw silk. 625
1123. Hino Silk Manufacturing Company, Shiga. Raw silk. 625
1124. Hirose Company, Saitama. Woven silk. 628
1125. Hoko Yanakawa. Handkerchiefs. 630
1126. Hosoya Silk Manufacturing Co., Aichi. Raw silk. 625
1127. Hyosuke Akagi, Fukushima. Raw silk. 625
1128. Ichibei Kumagai, Kyoto. *a* Silk fabrics. 629
b Crapes. 630
1129. Ichiji Suzuki, Gumma. Silk fabric. 629

DEPARTMENT H.—MANUFACTURES.

- | | |
|--|--|
| 1130. Ichimura Company, Gumma. Raw silk. 625 | 1165. Jintaro Nakamura, Shiga. Silk fabric. 630 |
| 1131. Ichitaro Igarashi, Gumma. Silk fabric. 629 | 1166. Jintaro Yoshida, Shiga. Silk fabric. 620 |
| 1132. Iemon Kikuchi, Yamagata. Raw silk. 625 | 1167. Jinzaburo Tamagami, Gumma. Silk fabric. 627 |
| 1133. Ihei Horie, Tochigi. Silk fabric. 629 | 1168. Jiro Inudo, Kumamoto. Raw silk. 625 |
| 1134. Ihei Niwa, Gifu. Raw silk. 625 | 1169. Jirosaburo Imai, Yamagata. Raw silk. 625 |
| 1135. Isaburo Kimura, Shiga. Silk fabric. 630 | 1170. Jiro Wakiya, Fukushima. Raw silk. 625 |
| 1136. Isaburo Nagashima, Tochigi. Crape woven with silk and cotton. 630 | 1171. Jisuke Inoue, Gumma. Silk fabric. 629 |
| 1137. Isaburo Sonoda, Gumma. Silk fabric. 629 | 1172. Jisuke Sakane, Kyoto. Cripes. 630 |
| 1138. Isei Nakamura, Yamanashi. Kaiki (silk fabric). 627 | 1173. Juemon Shiroki, Fukui. Raw silk. 625 |
| 1139. Isei Nara, Yamanashi. Kaiki (silk fabric). 627 | 1174. Junsui Kan, Nagano. Raw silk. 625 |
| 1140. Isaku Tsubamoto, Nara. Raw silk. 625 | 1175. Jyunzo Unhara, Kumamoto. Raw silk. 625 |
| 1141. Isematsu Inoue, Gumma. Silk fabric. 629 | 1176. Jyutaro Nakayama, Kanagawa. Silk fabrics. 629 |
| 1142. Isogoro Okada, Gumma. Silk fabric. 629 | 1177. Kagoshima Silk Manufacturing Union, Kagoshima. Raw silk. 625 |
| 1143. Ishioka Silk Manufacturing Co., Chiba. Raw silk. 625 | 1178. Kaheida Uchida, Gumma. Silk fabric. 629 |
| 1144. Isoji Mamada and five others, Saitama. Unfilled and gloss silk. 628 | 1179. Kahei Toshima, Yamaguchi. Raw silk. 625 |
| 1145. Isoji Shinagawa, Gumma. Silk fabric. 629 | 1180. Kahei Sowa, Kyoto. Silk fabric. 629 |
| 1146. Isuke Harada, Kyoto. Silk fabric. 628 | 1181. Kahei Yamaguchi, Yamanashi. Kaiki (silk fabric). 627 |
| 1147. Isuke Yoshida, Kyoto. Cripes. 630 | 1182. Kahei Yohoyama, Gumma. Silk fabric. 629 |
| 1148. Inamimachi Raw Silk Union, Toyama. Silk fabric. 628 | 1183. Kaichi Kato and one other, Yamanashi. Kaiki (silk fabric). 627 |
| 1149. Ina Silk Manufacturing Company, Nagano. Raw silk. 625 | 1184. Kairyo Company, Nagano. Raw silk. 625 |
| 1150. Institution of Silk Manufacturing, Miyazaki. Raw silk. 625 | 1185. Kaiehin Company, Kyoto. Raw silk. 625 |
| 1151. Itsujiro Suzuki, Gumma. Silk fabric. 629 | 1186. Kaishin Company, Saitama. Raw silk. 625 |
| 1152. Itsuro Hosoya, Gumma. Silk fabric. 629 | 1187. Kaishyo Company, Gifu. Raw silk. 625 |
| 1153. Iwabuchi Silk Manufacturing Company, Miyagi. Raw silk. 625 | 1188. Kaizo Kimura, Gumma. Silk fabric. 627 |
| 1154. Iwadeyama Silk Manufacturing, Miyagi. Raw silk. 625 | 1189. Kakushin Company, Yamagata. Raw silk. 625 |
| 1155. Iwai Company, Iwate. Raw silk. 625 | 1189a. Kakutaro Aibara, Gumma. Silk fabric. 630 |
| 1156. Iwakuni Silk Manufacturing Company, Yamaguchi. Raw silk. 625 | 1190. Kambei Kimura, Kyoto. Silk fabric. 629 |
| 1157. Izaemon Matsubara, Gifu. a Kaiki. 627
b Silk fabrics. 629 | 1191. Kamekichi Kato, Yamagata. Raw silk. 625 |
| 1158. Izaemon Ouchi, Kyoto. Silk fabric. 628 | 1192. Kamegoro Tase, Yamagata. Raw silk. 625 |
| 1159. Izumi Factory, Saitama. Plain woven silk. 628 | 1193. Kamori Takimoto, Iwate. Raw silk. 625 |
| 1160. Jihei Nishimura, Kyoto. a Silk fabric. 629
b Cripes. 630 | 1194. Kanekichi Fukuda, Gumma. Silk fabric. 629 |
| 1161. Jihei Tsukuda, Ishikawa. Silk fabrics. 628 | 1195. Kaneyama Company, Nagano. Raw silk. 625 |
| 1162. Jimbei Kawashima, Kyoto. a Silk wall decorations, etc. 629
b Cripes. 630
c Silk trimmings. 632 | 1196. Kaneta Takakusagi, Gumma. Silk fabric. 630 |
| 1163. Jingo Suzuki, Gumma. Silk fabric. 629 | 1197. Kangyo Silk Manufacturing Company, Yamanashi. Raw silk. 625 |
| 1164. Jinkichi Fujita, Fukushima. Silk fabrics. 627 | 1198. Kanji Matsuware, Kanazawa. Handkerchiefs. 630 |
| | 1199. Kansai Trading Company, Kyoto. Silk fabric. 629 |

JAPAN.

1200. Kanshichi Hao, Gumma. Silk fabrics. 629	1236. Kinsuke Ishizaki, Gumma. Silk fabric. 629
1201. Kantaro Miyazaki and one other, Gumma. Silk fabric. 629	1237. Kintaro Saka, Tokyo. 629
1202. Kanzaburō Maruoka, Hyogo. Raw silk. 625	<i>a</i> Table cover. 629
1203. Kanzaemon Ikeda, Akita. Silk fabric. 629	<i>b</i> Handkerchiefs. 630
1204. Kashichi Fujita, Kyoto. Silk fabric. 629	<i>c</i> Silk fabric. 630
1205. Kashiō Ogino, Gumma. Silk fabric. 629	1238. Kinzaemon Ozawa, Nagano. Raw silk. 625
1206. Katsunosuke Koseki, Yokohama. Raw silk. 625	1239. Kinzo Igarashi, Gumma. Silk fabric. 629
1207. Katsuyama Silk Manufacturing Company, Fukui. Raw silk. 625	1240. Kirihana Silk Manufacturing Company. Gumma. Raw silk. 625
1208. Kazo Koridani, Fukui. Raw silk. 625	1241. Kiroku Saba, Gumma. Silk fabric. 629
1209. Kendo Kobayashi, Yamanashi. Kaiki (silk fabric). 627	1242. Kisaburo Ogawa, Fukui. 628
1210. Keigi Takagi, Gumma. Silk fabric. 629	<i>a</i> Silk fabric. 628
1211. Keiji Shikima, Yamagata. Silk fabrics. 629	<i>b</i> Figured silk fabric. 629
1212. Kengo Iwada, Gifu. Kaiki (silk fabric). 627	1243. Kisaburo Koizumi, Kyoto. Handkerchiefs. 630
1213. Keisai Hirai, Yamanashi. Kaiki (silk fabric). 627	1244. Kisaburo Okuzawa, Nagano. Raw silk. 625
1214. Keitaro Arai, Gumma. Silk fabric. 629	1245. Kisuke Adachi, Kyoto. Silk fabric. 629
1215. Kichibei Suzuki, Yamagata. Raw silk. 625	1246. Kiyoshi Tabuchi, Hyōgo. Raw silk. 625
1216. Kichibei Tase, Yamagata. Raw silk. 625	1247. Kobei Nishikawa, Kyoto. Plain woven silk. 628
1217. Kichiemon Nishimura, Kyoto. Silk fabric. 630	1248. Kodama Company, Saitama. Raw silk. 625
1218. Kichiemon Saba, Gumma. 629	1249. Koeki Company, Nagano. Raw silk. 625
<i>a</i> Figured silk fabrics. 629	1250. Koheiji Mukaiyama, Saitama. Raw silk. 625
<i>b</i> Silk fabric. 630	1251. Kohei Motegi, Saitama. Floss. 627
1219. Kichiemon Sawa, Gumma. Silk fabric. 627	1252. Koichiro Koizumi, Tochigi. Silk fabric. 629
1220. Kichigoro Hasegawa, Yamagata. Raw silk. 625	1253. Koji Yoshizawa, Gumma. Silk fabrics. 629
1221. Kichigorō Morisawa, Saitama. Raw silk. 625	1254. Konan Company, Yamaguchi. Raw silk. 625
1222. Kichiroji Tase, Yamagata. Raw silk. 625	1255. Koshichi Okabe, Kanagawa. Silk fabrics. 629
1223. Kichisaburo Aoki, Shiga. Silk fabric. 630	1256. Kōsui Silk Manufacturing Company, Gumma. Raw silk. 625
1224. Kichiya Ishiwara, Gumma. Silk fabric. 629	1257. Kotoku Komiya, Yamanashi. Silk handkerchiefs. 630
1225. Kiemon Kato, Kanagawa. Silk fabric. 629	1258. Kōyō Company, Tochigi. Raw silk. 625
1226. Kihei Amamiya, Yamanashi. Raw silk. 625	1259. Kozaburo Takagi, Gumma. Silk fabrics. 629
1227. Kihei Torii, Kyoto. Silk fabric. 629	1260. Kozo Sugeno, Fukushima. Silk fabric. 629
1228. Kihachi Takikawa, Kyoto. Silk fabric. 629	1261. Kumakichi Yamato, Gumma. Silk fabrics. 629
1229. Kiichiro Buto, Gifu. Raw silk. 625	1262. Kumamoto Fabric Company, Kumamoto. Handkerchiefs. 630
1230. Kijyuro Koyama, Gumma. Silk fabric. 629	1263. Kumamoto Silk Manufacturing Co., Kumamoto. Raw silk. 625
1231. Kikaku Company, Yamanashi. Raw silk. 625	1264. Kumazo Morimura, Gumma. 629
1232. Kimpachi Kazama, Yamanashi. Raw silk. 625	<i>a</i> Figured silk fabrics. 629
1233. Kimpachiro Takayama, Miyagi. Raw silk. 625	<i>b</i> Silk fabrics. 630
1234. Kinjiro Shiina, Gumma. Silk fabric. 629	1265. Kunijiro Senga, Kyoto. Crapes. 630
1235. Kinosuke Nishida, Tochigi. Crapes. 630	1266. Kunitaro Komiya, Yamanashi. Silk handkerchiefs. 630
	1267. Kuntarō Kotani, Hyōgo. Raw silk. 625
	1268. Kurazo Koyama, Gumma. Silk fabrics. 629
	1269. Kuzaemon Hosomume, Yamagata. Raw silk. 625
	1270. Kyoei Company, Kyoto. Crapes. 630

DEPARTMENT H.—MANUFACTURES.

1271. Kyōryō Company, Gumma. Raw silk. 625
1272. Koyosha, Kanagawa. Raw silk. 625
1273. Kyoto Itomono Association, Kyoto.
a Twisted and thrown silks and gold thread. 626
b Braids. 632
1274. Kyōto Silk Manufacturing Company, Kyoto. Raw silk. 625
1275. Kyūgoro Shimizu, Gumma.
a Silk fabric. 627
b Crape. 630
1276. Kyūhei Nishikori, Shiga. Silk fabric. 630
1277. Kyūjiro Nakamura, Tochigi. Silk fabric. 627
1278. Kyūjiro Nozawa, Kanagawa. Handkerchiefs. 630
1279. Kyūshichi Takada, Kyoto. Crapes. 630
1280. Kyūshiro Okuyama, Yamagata. Raw silk. 625
1281. Kyūzo Ishida, Kyoto. Crapes. 630
1282. Kyūzo Tsukamoto, Shiga. Raw silk. 625
1283. Magosaburo Naka, Kyoto. Silk fabric. 629
1284. Manjiro Noro, Gifu. Raw silk. 625
1285. Mankichi Takagi, Aichi. Silk fabric. 629
1286. Mannosuke Kasahara, Gumma. Silk fabric. 629
1287. Makitarō Tokase, Shizuoka. Raw silk. 625
1288. Masaaki Mukaiyama, Yamanashi. Raw silk. 625
1289. Masahei Zen, Gumma. Silk fabric. 629
1290. Masakichi Takashiro, Gumma. Silk fabric. 627
1291. Masakoto Namekata, Fukui. Raw silk. 625
1292. Masao Kawaguchi, Kyoto. Crapes. 630
1293. Masashichiro Seikida, Tochigi.
a Silk fabric. 628
b Silk handkerchiefs. 630
1294. Masashige Inoue, Yamanashi. Silk handkerchiefs. 630
1295. Masazo Akiyama, Yamanashi. Raw silk. 625
1296. Masuzo Abe, Tochigi. Silk fabric. 629
1297. Mataemon Takahashi, Yamagata. Raw silk. 625
1298. Matsue Sericulture Company, Shimane. Raw silk. 625
1299. Matsugoro Mogi, Gumma. Silk fabric. 629
1300. Matsujiro Saganuma, Yamanashi. Kaiki (silk fabric). 627
1301. Matsunosuke Nagao, Kyoto. Silk fabric. 629
1302. Matsushiro Silk Manufacturing Company, Nagano. Raw silk. 625
1303. Matsuya Igarashi, Gumma. Silk fabric. 629
1304. Meijyu Company, Nagano. Raw silk. 625
1305. Midorino Silk Manufacturing Company, Gumma. Raw silk. 625
1306. Mineyama Company, Kyoto. Crapes. 630
1307. Minoru Hosoda, Yamanashi. Kaiki (silk fabric). 627
1308. Minosuke Yoshimura, Shiga. Silk fabric. 630
1309. Miozo Ishikura, Gumma. Silk fabric. 629
1310. Mishima Silk Manufacturing Company, Tottori. Raw silk. 625
1311. Mitsuboshi Fabric Factory, Gifu.
a Kaiki (silk fabric). 627
b Figured silk fabric. 629
c Silk fabric. 630
1312. Mitsucoshi Silk Manufacturing Company, Gifu. Raw silk. 625
1313. Mohei Yamazoe, Kyoto. Crapes. 630
1314. Mokujiro Hasegawa, Kyoto. Silk fabric. 629
1315. Monzaburo Hattori, Gumma. Silk fabric. 628
1316. Moritaro Arai, Gumma. Silk fabric. 627
1317. Moritaro Fukuda, Gumma. Silk fabric. 629
1318. Mosaburo Sekido, Yamanashi. Silk handkerchiefs. 630
1319. Mosaburo Komata, Yamanashi. Kaiki (silk fabric). 627
1320. Mosaku Kobayashi, Gumma. Silk fabric. 629
1321. Mume Seki, Hyoto. Laces. 630
1322. Nabehei Hara, Gumma. Silk fabric. 629
1323. Nagasaki Manufacturing Company, Nagasaki. Raw silk. 625
1324. Nagashige Takino, Gumma. Raw silk. 625
1325. Nagai Company, Yamagata. Raw silk. 625
1326. Namie Omi, Fukuohima. Raw silk. 625
1327. Namikichi Morita, Kanagawa. Raw silk. 625
1328. Naojiro Iwano, Gumma. Satin. 629
1329. Naojiro Takei, Gumma. Silk fabric. 629
1330. Naokichi Hishino, Gumma.
a Silk fabrics. 628
b Figured silk fabrics. 629
c Handkerchiefs. 630
1331. Nin-ichi Okada, Tōkyō. Silk fabric. 628
1332. Nippon Fabric Manufacturing Company, Gumma. Silk fabric. 630
1333. Nishijin Fabric Company, Kyoto. Silk fabric. 629
1334. Nishikido Silk Manufacturing Company, Miyagi. Raw silk. 625
1335. North Kanara Silk Manufacturing Company, Gumma. Raw silk. 625
1336. North Western Company, Nagano. Raw silk. 625
1337. Obei Company, Nagano. Raw silk. 625
1338. Ogaki Silk Manufacturing Company, Gifu. Raw silk. 625
1339. Ohama Silk Manufacturing Company, Fukui. Silk fabric. 628
1340. Omi Silk Manufacturing Company, Shiga. Raw silk. 628

JAPAN.

1341. Ono Company, Nagano. Raw silk. 625
1342. Ono Silk Manufacturing Company, Fukui. Raw silk. 625
1343. Orimono Kwaisha, Kyoto. Silk fabric. 629
1344. Osamu Yamada, Fukushima. Raw silk. 625
1345. Otoemon Terauchi, Tochigi. Silk fabric. 627
1346. Otsu Silk Manufacturing Company, Ehime. Raw silk. 625
1347. Riemon Ysuda, Fukushima. Silk fabrics. 627
1348. Rihei Kawamura, Yamagata. Raw silk. 625
1349. Rijiro Namikawa, Shimane. Raw silk. 625
1350. Rinsaku Takagi, Gumma. Silk fabrics. 629
1351. Risaburo Koyama, Gumma. Silk fabric. 630
1352. Rishichi Tanaka, Kyoto. Silk fabric. 629
1353. Rishiro Motegi, Saitama. Floss. 627
1354. Risuke Yoshida, Kyoto. Crapes. 630
1355. Rokko Company, Nagano. Raw silk. 625
1356. Rokusaburo Komata, Yamanashi. Kaiki (silk fabric). 627
1357. Ryosuke Iwamoto, Tochigi. Silk fabric; fabric woven with silk and cotton. 629
1358. Rui Nagai, Chiba. Raw silk. 625
1359. Ryodayu Iwabuchi, Miyagi. Raw silk. 625
1360. Ryosei Company, Fukushima. Raw silk. 625
1361. Ryosuke Iwamoto, Tochigi. *a* Silk fabrics. 627
b Crapes. 630
1362. Ryotaro Mori, Gumma. *a* Silk fabrics. 629
b Gauze and crape. 630
1363. Ryujo Kan, Nagano. Raw silk. 625
1364. Sabae Fabric Company, Fukui. Silk fabric. 628
1365. Saburosuke Fujizaki, Miyagi. Woven silk. 629
1366. Sadabei Yamada, Kyoto. Crapes. 630
1367. Sadakichi Goto, Gumma. *a* Silk fabrics. 627
b Silk fabrics. 629
1368. Sadakichi Kawai, Gumma. Crapes, etc. 630
1369. Sadao Kanamaru, Kyoto. Silk fabric. 629
1370. Saemon Kangae, Yamagata. Silk fabric. 627
1371. Saishin Company, Nagano. Raw silk. 625
1372. Saheiji Kojima, Gumma. Silk fabric. 629
1373. Sahei Naoi, Gifu. Raw silk. 625
1374. Sahei Saito, Gifu. Raw silk. 625
1375. Saijiro Amakai, Tochigi. Silk fabric. 627
1376. Sairo Sone, Yamanashi. Kaiki (silk fabric). 627
1377. Saisuke Iwashita, Gumma. Silk fabric. 628
1378. Sakichi Kuwabara, Gumma. Silk fabric. 627
1379. Sakichiro Fujibu, Gumma. Silk fabric. 629
1380. Sakubei Nobashi, Kyoto. Crapes. 630
1381. Sakunosuke Kinugawa, Hyogo. Raw silk. 626
1382. Sakushichi Hasegawa, Tochigi. Silk fabric. 629
1383. Sanei Company, Kyoto. Crapes. 630
1384. San-emon Mizushima, Tokyo. Raw fabric. 628
1385. Sanin Silk Manufacturing Company, Tottori. Raw silk. 625
1386. Sankichi Yonezawa, Tokyo. Silk fabric. 628
1387. Sano Silk Manufacturing Company, Miyagi. Raw silk. 625
1388. Sasuke Hasegawa, Kyoto. Silk fabric. 629
1389. Sataro Tsujihara, Kyoto. Raw silk. 625
1390. Sawaemon Okumura, Gifu. Silk fabric. 629
1391. Seibei Hiratsuka, Yamanashi. Kaiki (silk fabric). 627
1392. Seibei Itagaki, Gumma. Silk fabric. 629
1393. Seibei Naiki, Kyoto. Silk fabric. 628
1394. Seibei Nishibori, Kyoto. Crapes. 630
1395. Seiichi Watanabe, Yamanashi. Silk handkerchiefs. 630
1396. Seimon Yonetake, Miyagi. Raw silk. 625
1397. Seijiro Akutagawa, Kyoto. Silk fabric. 629
1398. Seijiro Shimoyama, Gumma. Silk fabric. 630
1399. Seijyuro Inoue, Gumma. Silk fabric. 629
1400. Seikichi Ukai, Aichi. Silk handkerchiefs. 630
1401. Seishichi Sasaki, Kyoto. Silk fabrics. 629
1402. Seishi Mori, Gumma. Silk fabric. 629
1403. Seisuke Ishiwara, Gumma. Silk fabrics. 629
1404. Seitaro Arai, Gumma. Silk fabric. 628
1405. Senjiro Takahusa, Gumma. Silk fabric. 627
1406. Seizen Company, Gifu. Raw silk. 625
1407. Seizo Ii, Shiga. Raw silk. 625
1408. Seizo Nakajima, Gumma. Silk fabric. 629
1409. Shichibei Fukushima, Saitama. Plain woven silk. 628
1410. Shichihei Kojima, Gumma. Silk fabric. 629
1411. Shichiyo Company, Nagano. Raw silk. 625
1412. Shigeo Iwata, Yokohama. Silk fabrics. 629

DEPARTMENT H.—MANUFACTURES.

1413. Shigeru Takata, Tōkyō. Silk fabric. 628
1414. Shigezo Oka, Osaka. Braids and tassels. 632
1415. Shimbei Motegi, Tochigi. Crapes. 630
1416. Shimpachi Mizawa, Yamanashi. Silk handkerchiefs. 630
1417. Shinei Company, Kobe. Hemp and floss. 627
1418. Shinjo Fabric Union, Yamagata. Silk fabric. 628
1419. Shinkichi Hagishima, Kanagawa. Silk fabrics. 629
1420. Shinsei Company, Nagano. Raw silk. 625
1421. Shinshichi Iida, Kyoto.
 a Silk fabrics. 628
 b Silk fabrics. 628
 c Silk fabrics. 630
1422. Shinshichi Tani, Kyoto. Silk fabric. 629
1423. Shinsho Company, Gifu. Raw silk. 625
1424. Shinyo Kan, Nagano. Raw silk. 625
1425. Shinzaburo Morishita, Gumma. Silk fabric. 627
1426. Shisan Stock Exchange, Oita. Raw silk. 625
1427. Shizoku Institute, Miyazaki. Raw silk. 625
1428. Shizukawa Union Reeling Company, Miyagi. Raw silk. 625
1429. Shizuoka Silk Manufacturing Company, Shizuoka. Raw silk. 625
1430. Silk Industry Company, Nagano. Raw silk. 625
1431. Simmachi Mitsukochi Spinning Mill, Gumma. Spun silk. 627
1432. Sinjir Namie, Kyoto. Crapes. 630
1433. Shoebei Yashiro, Kyoto.
 a Plain silk fabrics. 628
 b Figured silk fabrics. 629
1434. Shohachi Tanikawa, Kyoto. Silk fabric. 629
1435. Shohei Amano, Yamanashi. Kaiki (silk fabric). 627
1436. Shohei Morimura, Gumma. Silk fabric. 629
1437. Shoichiro Hiroi, Yamanashi. Kaiki (silk fabric). 627
1438. Shojyo Company, Nagano. Raw silk. 625
1439. Shōmei Company, Gumma. Raw silk. 625
1440. Shōryu Silk Manufacturing Company, Gumma. Raw silk. 625
1441. Shosaburo Mori, Gifu. Raw silk. 625
1442. Shosuke Hirose, Kyoto. Silk fabric. 629
1443. Shotaro Shimomura, Kyoto. Silk fabric. 629
1444. Shozaburo Kawabata, Gumma. Silk fabric. 629
1445. Shugidani Silk Manufacturing Company, Shiga. Raw silk. 625
1446. Shummei Company, Nagano. Raw silk. 625
1447. Shunsuke Adachi, Kyoto. Silk fabrics. 630
1448. Sobei Mori and five others, Fukushima. Silk handkerchiefs. 630
1449. Sobei Mogi, Yokohama. Raw silk. 625
1450. Soemon Kuoota, Kanagawa. Silk fabrics. 629
1451. Sogoro Nakazoto, Gumma. Silk fabric. 630
1452. Sohei Tsutsumi, Shiga. Raw silk. 625
1453. Sojiro Takada, Gumma. Silk fabric. 627
1454. Sosaku Mori, Gumma. Silk fabric. 629
1455. Sotaro Kobayashi, Gumma. Silk fabric. 630
1456. Sotaro Koyama, Gumma. Silk fabric. 629
1457. Sosuke Onishi, Kyoto. Silk fabric. 629
1458. Sosuke Tsuruta, Fukuoka. Silk braids. 632
1459. Sozaburo Nakamura, Kanagawa. Silk fabrics. 629
1460. Sozaemon Nishimura, Kyoto. Silk fabric. 629
1461. Sozaemon Noshimura, Kyoto. Silk fabric. 629
1462. Suekichi Murazato, Iwate. Raw silk. 625
1463. Suishoken, Yamagata. Raw silk. 625
1464. Suitomo Silk Manufacturing Company, Shiga. Raw silk. 625
1465. Sukejiro Kaneko, Gumma. Silk fabric. 629
1466. Sukeo Nomura, Fukuoka. Raw silk. 625
1467. Sumizo Iijima, Gumma. Silk fabric. 629
1468. Tadashichi Yamato, Gumma. Silk fabric. 629
1469. Taiemon Abe, Kanazawa. Handkerchiefs. 630
1470. Taisei Company, Nagasaki. Raw silk. 625
1471. Taiyo Company, Nagano. Raw silk. 625
1472. Takamasa Kobayashi, Yamanashi. Kaiki (silk fabric). 627
1473. Takashima Company, Nagano. Raw silk. 625
1474. Takashimizu Silk Manufacturing Association, Miyagi. Raw silk. 625
1475. Takayama Silk Manufacturing Company, Gumma. Raw silk. 625
1476. Takayama Silk Manufacturing Irino Association, Gumma. Raw silk. 625
1477. Takanabe Institute, Miyazaki. Raw silk. 625
1478. Take-emon Fuchigami, Kagoshima. Spun silk fabric. 627
1479. Takejiro Kato, Tokyo. Specimen of fabric. 630
1480. Taku Hayashi, Kanagawa. Handkerchiefs. 630
1481. Tamagoro Hoshino, Gumma. Silk gauze. 630
1482. Tamakichi Suzuki, Tochigi. Silk fabric. 627
1483. Tamehachi Akima, Tochigi. Silk fabric. 629
1484. Tarobei Ohama, Shiga. Raw silk. 625

JAPAN.

1485. Tarokichi Shimazaki, Yamagata. Raw silk. 625
1486. Tase Company, Yamagata. Raw silk. 625
1487. Tashichi Ishiwara, Gumma. Silk fabric. 629
1488. Tashichi Sawamura, Kyoto. Crapes. 630
1489. Tatsuji Tase, Yamagata. Raw silk. 625
1490. Teizaburō Kambe, Gumma. Raw silk. 625
1491. Teizaburo Torikoe, Hiroshima. Raw silk. 625
1492. Teruyoshi Onoda, Yamanashi. Kaiki (silk fabric). 627
1493. Toei Company, Nagano. Raw silk. 625
1494. Togoro Kimura, Shiga. Silk fabric. 630
1495. Tojyuro Sando, Gumma. Silk fabric. 627
1496. Tokiraro Ogawa, Kanagawa. Silk fabrics. 629
1497. Toko Company, Nagano. Raw silk. 625
1498. Tokubei Nagao, Kyoto. Silk fabric. 629
1499. Tokuji Kiriyaama, Tokyo. Crapes. 630
1500. Tokuemom Ehara, Kyoto. Handkerchiefs. 630
1501. Tokuemom Mitsukoshi, Tokyo. Figured silk fabric. 629
1502. Tokunosuke Itoi, Kyoto. Crapes. 630
1503. Tokushin Company, Nagano. Raw silk. 625
1504. Tomiemon Suzuki, Gifu. Kaiki (silk fabric). 627
1505. Tomisaburo Morimura, Gumma. Silk fabric. 629
1506. Tomojiro Inoue, Gumma. Silk fabric. 629
1507. Tomokichi Suto, Gumma. Silk fabric. 629
1508. Tomozō Yanai, Gumma. Raw silk. 625
1509. Toshishige Myashita, Yamanashi. Kaiki (silk fabric). 627
1510. Toraichi Date, Kyoto. Yamato-Nishika (silk fabric so called). 629
1511. Toshiro Okonogi, Tochigi. *a* Silk fabric. 629
b Crape. 630
1512. Tosuke Yanagita, Tochigi. Silk fabric. 627
1513. Toyozo Yamato, Gumma. Silk fabric. 629
1514. Tozaemon Ando, Yamanashi. Silk handkerchiefs. 630
1515. Tozawa Silk Manufacturing Company, Gumma. Raw silk. 625
1516. Tsukahara Company, Yamagata. Raw silk. 625
1517. Tsū Kushida, Gumma. Raw silk. 625
1518. Tsunekichi Fukuda, Gumma. Silk fabric. 629
1519. Tsunehachi Nishikawa, Tokyo. Silk handkerchiefs. 630
1520. Tsunejiro Hoshino, Gumma. Satin 629
1521. Tsunejiro Shoda, Aichi. Silk handkerchiefs. 631
1522. Tsune Tokunaga, Gumma. Silk fabric. 628
1523. Tsunesaku Yosuda, Fukushima. Raw silk. 625
1524. Uhachi Inada, Kyoto. Silk fabric. 628
1525. Uhachi Suzuki, Gumma. Silk fabric. 629
1526. Uhei Hatano and one other, Yamanashi. Kaiki (silk fabric). 627
1527. Umazo Imai, Nagano. Raw silk. 625
1528. Unosuke Yui, Fukushima. Silk fabrics. 627
1529. Ushigoro Igarashi, Gumma. Silk fabric. 629
1530. Usui Company, Gumma. Raw silk. 625
1531. Uraji Kobayashi, Gumma. Silk fabrics. 629
1532. Uzo Konno, Yamagata. Raw silk. 625
1533. Wakichiro Omura, Tokyo. *a* Plain silk fabric. 628
b Figured fabric. 629
c Crapes. 630
1534. Wakichi Yajima, Gumma. Silk fabric. 629
1535. Wasaburo Abe, Iwate. Raw silk. 625
1536. Wasuke Funakoshi, Kyoto. *a* Handkerchiefs. 630
b Ladies' dress trimmings. 632
1537. Wasuke Matsukoshi, Kyoto. Silk fabric. 628
1538. Wasuke Umehara, Kyoto. Raw silk. 625
1539. Yahei Inoue, Gumma. Silk fabric. 629
1540. Yahei Oseki, Gifu. Silk fabric. 630
1541. Yaichira Shimojo, Gumma. Silk fabric. 629
1542. Yajima Company, Nagano. Raw silk. 625
1543. Yakichi Suzuk, Gumma. Silk fabric. 629
1544. Yamaguchi Silk Manufacturing Company, Yamaguchi. Raw silk. 625
1545. Yamanaka Silk Manufacturing Company, Shiga. Raw silk. 625
1546. Yanojo Naganuma, Gumma. Silk fabrics. 629
1547. Yasaburo Hashimoto, Kyoto. Silk fabric. 629
1548. Yasaburo Morishima, Shiga. Raw silk. 625
1549. Yashichi Hirai, Kyoto. Silk fabric. 629
1550. Yashichi Taniai, Kanagawa. Crapes. 630
1551. Yasuemon Kumazawa, Gifu. Kaiki (silk fabric). 627
1552. Yasuhara Raw Silk Dealers' Association, Fukushima. Floss. 627
1553. Yasuhei Shimizu, Tochigi. Raw silk. 625
1554. Yasujiro Matsubayashi, Kyoto. Silk fabric. 629
1555. Yasutaro Taira, Kanagawa. Silk fabrics. 629

DEPARTMENT H.—MANUFACTURES.

1556. Yasuzaemon Ichikawa, Tochigi.
a Silk thread. 626
b Window curtains. 629
c Crapes. 630
1557. Yasuzaemon Kusaka, Hyōgo. Raw silk. 625
1558. Yasuzo Aki, Gumma. Silk fabric. 627
- 1558a. Yasuzo Igarashi, Gumma. Silk fabric. 629
1559. Yasuzo Yamada, Kyoto. Silk fabric. 629
1560. Yataro Shiraishi, Tochigi. Silk fabric. 629
1561. Yazo Igarashi, Gumma. Silk fabric. 629
1562. Yogoro Matsumoto, Yamagata. Raw silk. 625
1563. Yoichi Kamijo, Yamanashi. Kaiki (silk fabric). 627
1564. Yohei Amari, Yamanashi. Kaiki (silk fabric). 627
1565. Yonejiro Yamaka, Osaka. Table covers; fabric. 629
1566. Yonekichi Mogi, Gumma. Silk fabric. 629
1567. Yonezawa Silk Manufacturing Company, Yamagata. Raw silk. 625
1568. Yoshigoro Inamura, Gumma. Satin. 629
1569. Yoshitarō Matsui, Fukui. Silk fabric. 628
1570. Yoshihei Moriyama, Gumma. Silk fabric. 629
1571. Yoshihei Moriyama, Kiryu. Table cover. 629
1572. Yoshimaro Hachisuka, Yamanashi. Kaiki (silk fabric). 627
1573. Yoshiro Koizumi, Yamanashi. Kaiki (silk fabric). 627
1574. Yoshizo Maruyama, Tochigi. Silk fabric. 627
1575. Yosuke Shibata, Akita. Raw silk. 625
1576. Yuge Silk Manufacturing Company, Kyoto. Raw silk. 625
1577. Yuki Company, Saitama. Raw silk. 625
1578. Yūkō Company, Kyōto. Raw silk. 625
1579. Yumei Company, Nagano. Raw silk. 625
1580. Yunoshin Midorigawa, Gifu. Silk fabric. 629
1581. Yusuke Igarashi, Gumma. Silk fabric. 629
1582. Yuzo Ikeda, Kyoto. Silk fabric. 628
1583. Zembei Hasegawa, Yamagata. Raw silk. 625
1584. Zembei Ono, Kyoto.
a Silk fabrics. 628
b Artistic velvet fabrics. 630
1585. Zembei Sugano and five others, Fukushima. Silk fabric. 627
1586. Zewemon Iwaya, Shimane. Raw silk. 625
1587. Zenemon Toyoda, Osaka. Embroidering (silk). 625
1588. Zenshichi Fujii, Kyoto. Silk fabric. 629
1589. Zenshichi Watanabe, Kyoto. Silk fabric. 629
1590. Zenshinsha, Kanagawa. Raw silk. 625
1591. Zentaro Yasuhara, Kyoto. Crapes. 630
1592. Zenzaburo Ihibashi, Chiba. Silk fabric. 627
1593. Zenzaemon Onozato, Gumma. Silk fabric. 629

GROUP 101.

1594. Buemon Fuchinouye, Kagoshima. Ramie fabrics. 634
1595. Chujiro Yamaoka, Osaka. Wheat straw braids. 635
1596. Dembei Ban, Tokyo. Mattings. 635
1597. Genshiro Okada, Osaka. Wheat straw braids. 635
1598. Hakuai Association, Yamaguchi. Wheat straw braids. 635
1599. Hayami Company, Mat Traders' Association, Oita. Mattings. 635
1600. Hayashima Trading Company, Okayama. Mattings. 635
1601. Higashi Kokuto County Mat Traders' Association, Oita. Mattings. 635
1602. Hikotaro Torigae, Kanagawa. Wheat straw braids. 635
1603. Inosuke Harata, Osaka. Wheat straw braids. 635
1604. Isuke Yasuda, Ishikawa. Mattings. 635
1605. Jyubei Komatsu, Oita. Mattings. 635
1606. Kansai Trading Company, Kyoto. Mattings. 635
1607. Kiemon Shimazuye, Hiroshima. Mattings. 635
1608. Kin-en Association and three others, Okayama. Mattings. 635
1609. Kohei Kondo, Hiroshima. Mattings. 635
1610. Kozo Shimoto, Kumamoto. Wheat straw braids. 635
1611. Kyubei Akawaga, Osaka. Palm bark works. 635
1612. Manjiro Mizota, Tokyo. Kuzufu (vegetable fabric). 634
1613. Monsuke Tsubota, Shiga. Linen handkerchiefs. 634
1614. Mat Traders' Association, Fukuoka. Mattings. 635
1615. Minki Isozaki and one other, Okayama. Mattings. 635
1616. Naohei Imatani, Okayama. Mattings. 635
1617. Rokuhei Mishima, Ishikawa. Mattings. 635
1618. Ryoen Association, Okayama. Mattings. 635
1619. Ryo Miyata and one other, Okayama. Wheat straw braids. 635
1620. Sanen Association, Kagawa. Mattings. 635
1621. Sanji Nakamura, Yamaguchi. Hemp thread. 634
1622. Seiu Kumada, Kumamoto. Mattings. 635
1623. Seishiroka, Ishiza Kumamoto. Wheat straw braids. 635
1624. Seizaburo Osawa, Osaka. Rush mattings. 635
1625. Shichihei Oita, Osaka. Wheat straw braid; ropes. 635

JAPAN.

1626. Shokichi Matsuya and three others, Hiroshima. Mattings. 635
 1627. Teishirō Tsukiji, Kumamoto. Mattings. 635
 1628. Tomoji Nakayama, Kochi. Mattings. 635
 1629. Torakiyo Sato, Tokyo. Fabrics for wall decorations. 634
 1630. Yasuemon Nomura, Yamaguchi. Wheat straw braids. 635
 1631. Yoshibei Tonobori, Kyoto. Ramie fabrics. 634

GROUP 101.

1632. Hachirobei Niimi, Kyoto. Hemp fabric. 634

GROUP 102.

1633. Aichi Trading Association, Aichi. Cotton fabric. 638
 1634. Akitaro Sadakata, Tochigi. Cotton fabric. 638
 1635. Benjiro Suto, Gumma. Cotton fabric. 638
 1636. Buemon Fuchinoue, Kagoshima. Handkerchiefs. 639
 1637. Buemon Fujinoue, Kagoshima. Cotton fabrics. 638
 1638. Bunroku Oka, Kyoto. Cotton fabric. 638
 1639. Bunzaemon Kakiage, Gumma. Cotton fabric. 638
 1640. Chikataro Shimizu, Saitama. Cotton fabric. 638
 1641. Chotaro Hatsugai, Tochigi. Cotton fabric. 638
 1642. Chozo Washio, Hyogo. Canvas. 638
 1643. Daijiro Temita, Nagoya. Cotton fabric. 638
 1644. Gempei Maruyama, Tochigi. Cotton fabric. 638
 1645. Gihachi Koizumi, Tochigi. Cotton fabric. 638
 1646. Gonjiro Yamamoto, Nagoya. Cotton fabric. 638
 1647. Hachirobei Niimi, Kyoto. Cotton fabrics. 638
 1648. Hanjiro Iitsuke, Tochigi. Cotton fabric. 638
 1649. Hanzaemon Komai, Shiga. Cotton fabric. 638
 1650. Hanzo Shinozaki, Tochigi. Cotton fabric. 638
 1651. Hatsuji Suzuki, Tochigi. Cotton fabric. 638
 1652. Heihachi Kitagawa, Kyoto. Table cover. 638
 1653. Hejiro Izawa, Tokyo. Towels. 638
 1654. Hidezo Funaki, Tottori. Cotton fabric. 638
 1655. Hikoemon Yokoe, Shiga. Cotton fabric. 638
 1656. Ichiemon Koizumi, Saitama. Cotton fabric. 638
 1657. Ichigoro Kawakubo, Saitama. Fabric (silk and cotton mixed). 638
 1658. Ihei Oguma, Saitama. Cotton fabric. 638
 1659. Isaburo Nagashima, Tochigi. Cotton fabric. 638
 1660. Iwajiro Fujimura, Kyoto. Cotton flannel. 638

1661. Jimbei Funaki, Tottori. Cotton fabric. 638
 1662. Jisaburo Yanai, Hyogo. Cotton flannel. 638
 1663. Jisaku Yamaguchi, Saitama. Cotton fabric. 638
 1664. Jyutaro Okada, Tokyo. Cotton fabrics. 638
 1665. Kahei Shibata, Nara. Cotton fabric. 638
 1666. Kahei Shiraishi, Chiba. Cotton fabric. 638
 1667. Kakubei Noguchi, Kyoto. Tapestry. 638
 1668. Kaneshichi Maeta, Tokyo. Cotton fabrics. 638
 1669. Kashiro Sato, Aichi. Cotton fabric. 638
 1670. Katsueemon Shimizu, Saitama. Cotton fabric. 638
 1671. Katsujiro Sawai, Tokyo. Cotton fabrics. 638
 1672. Katsusaku Yamauchi, Tokyo. Cotton fabrics. 638
 1673. Kichibei Fukai, Chiba. Cotton fabric. 638
 1674. Kihei Shimomura, Saitama. Cotton fabric. 638
 1675. Kihei Yahagi, Saitama. Cotton fabric. 638
 1676. Kitaro Takasawa, Gumma. Cotton fabric. 638
 1677. Kohei Endo, Saitama. Cotton fabric. 638
 1678. Kojyuro Mogi, Gumma. Cotton fabric. 638
 1679. Kotaro Iwakami, Tochigi. Cotton fabric. 638
 1680. Kumataro Otsuqa, Gumma. Cotton fabric. 638
 1681. Kyubei Kawashima, Tochigi. Cotton fabric. 638
 1682. Kyujiro Kawakami, Kyoto. Figured fabric. 638
 1683. Manjiro Mizota, Tokyo. Cotton fabrics. 638
 1684. Mankichi Takagi, Aichi. Cotton fabric. 638
 1685. Masuke Tsubata, Shiga. Cotton fabric. 638
 1686. Minekichi Kikuchi, Tochigi. Cotton fabric. 638
 1687. Mohei Kojima, Gumma. Cotton fabric. 638
 1688. Mohei Sunaga, Tochigi. Cotton fabric. 638
 1689. Motoshichi Maekami, Ehime. Cotton fabric. 638
 1690. Nagakau Tu Nagakubo, Toyama. Handkerchiefs. 639
 1691. Naoyoshi Nishida, Osaka. Cotton fabric. 638
 1692. Nizarmon Terada, Osaka. Cotton fabric. 638
 1693. Rihei Mamifuda, Tochigi. Cotton fabric. 638
 1694. Rihei Shinozaki, Tochigi. Cotton fabric. 638
 1695. Ryosuke Iwamoto, Tochigi. Cotton fabric. 638
 1696. Ryotaro Mori, Gumma. Cotton fabric. 638
 1697. Sashichi Sekine, Tochigi. Cotton fabric. 638

DEPARTMENT H.—MANUFACTURES.

1698. Seishichi Sasaki, Kyoto. Carpets. 638
 1699. Seishoku Association, Aichi. Cotton fabric. 638
 1700. Senshichi Onda, Tottori. Cotton fabric. 638
 1701. Sennosuke Ushiyama, Tochigi. Cotton fabric. 638
 1702. Sheizaemon Ishikawa, Kanagawa. Cotton fabric. 638
 1703. Shimpei Arai, Tochigi. Cotton fabric. 638
 1704. Kahei Shiraishi, Chiba. Handkerchief. 638
 1705. Shobei Kawamura, Tokyo. Cotton fabrics. 638
 1706. Shohei Kuwaka, Tottori. Cotton fabric. 638
 1707. Sukejiro Kojima, Aichi. Cotton fabric. 638
 1708. Sukesaburo Kotsuka and two others, Aichi. Cotton fabric. 638
 1709. Taichiro Kawashina, Gumma. Cotton fabric. 638
 1710. Temma Weaving Company, Osaka. Cotton flannel. 658
 1711. Tokuji Kiriyaama, Tokyo. Cotton fabrics. 638
 1712. Tomokichi Kashiwasaki, Tochigi. Cotton fabric. 638
 1713. Torazo Mogi, Tochigi. Cotton fabric. 638
 1714. Toshiro Okonogi, Tochigi. Cotton fabric. 638
 1715. Tosuke Nasu, Osaka. Tapes. 638
 1716. Tsunehachi Nishikawa, Tokyo. Cotton handkerchiefs. 638
 1717. Umajiro Iwaba, Kanagawa. Cotton fabric. 638
 1718. Yoichiro Okamoto, Chiba. Cotton fabric. 638
 1719. Yoshiebi Sunaga, Tochigi. Cotton fabric. 638
 1720. Yoshitaro Koizumi, Tochigi. Cotton fabric. 638
 1721. Yoshitomi Yanase, Ehime. Cotton fabric. 638
 1722. Yuzo Ikeda, Kyoto. Table cover. 638
 1723. Zenbei Tanaka, Gifu. Cotton fabric. 638
 1724. Zenzaburo Segawa, Ehime. Cotton fabric. 638

GROUP 103.

1725. Chojiro Okada, Tokyo. Feather fabric. 651
 1726. Hatsuji Suzuki, Tochigi. Fabric (silk and cotton mixed). 644
 1727. Heibei Sakamoto, Osaka. Woolen fabric. 641
 1728. Kojiro Harai, Osaka. Flannels. 644
 1729. Kuranosuke Okata, Tochigi. Cotton fabric with wool. 647
 1730. Seikichi Ida, Osaka. Drugget. 648
 1731. Takuhei Tada, Tokushima. Woolen fabric, woven on cotton warps. 645
 1732. Yakichi Kuribayashi, Hyogo. Hair fabric. 651
 1733. Yoshiebi Tonohori, Kyoto. Woolen fabric. 641

1734. Yoshitaro Yenoshima and four others, Tokushima. Woolen fabric, woven on cotton warp. 645
 1735. Zempei Harigasane, Tokyo. Feather fabric. 651

GROUP 104.

1736. Eitaro Iijima, Kanagawa. Straw hats. 654
 1737. Fuji Condo, Gumma. Grant bonnet. 655
 1738. Heiemon Nagakura, Shizuoka. Hats, made with bamboo. 654
 1739. Ichibei Kumagai, Kyoto. Japanese robes. 653
 1740. Inajiro Otsuka, Tokyo. Boots and shoes. 656
 1741. Inosuke Nemoto, Tokyo. Clothing. 652
 1742. Isao Murakami, Tokyo. Shoes and boots. 656
 1743. Jirobei Miura, Osaka. Underwear. 652
 1744. Morizo Inuma, Tokyo. Shoes. 656
 1745. Sakura Company, Tokyo. Boots and shoes. 656
 1746. Seizaemon Ishikawa, Kanagawa. Gowns. 653
 1747. Shinshichi Iida, Kyoto. Japanese robes. 653
 1748. Seishokusha, Aichi. Clothing. 652
 1749. Takijiro Kutsutani, Tokyo. Belt. 658
 1750. Takuzo Otsuka, Tokyo. Japanese robes with accessories. 653
 1751. Tokueemon Mitsugoshi, Tokyo. Dresses. 653
 1752. War Dept. Ways and Means Bureau. Military uniforms. 653
 1753. Waichi Okamoto, Osaka. Underwear. 652
 1754. Wakichiro Omura, Tokyo. Gowns, sash, etc. 653
 1755. Yasu Araki, Osaka. Gown and belt. 653
 1756. Yoshitaro Enoshima and four others, Tokushima. Clothing. 652
 1757. Zembei Ono, Kyoto.
 a Japanese clothing. 652
 b Japanese gowns. 653

GROUP 105.

1758. The Imperial Fishery Company, Hokkaido. Furs. 660

GROUP 106.

1759. Benjiro Miyamoto, Osaka. Tapes-try. 670
 1760. Bunsuke Imasaka, Kyoto. Fans. 667
 1760a. Bunsuke Sakata, Kyoto. Fans. 667
 1761. Chyu Mizutani, Osaka. Fans. 667
 1762. Dembei Kashimitsu, Kanagawa. Embroidery work. 669
 1763. Dembei Kitagawa, Nara. Fans. 667
 1764. Einosuke Kiyohara, Tokyo. Plaque. 667
 1765. Eizaburo Ikeda, Osaka. Fans. 667
 1766. Fusajiro Nakamura, Kyoto. Fans. 667
 1767. Giichi Kimura, Hyogo.
 a Gold laces. 664
 b Thread; embroidery screens. 665

JAPAN.

1768. Gisuke Nakamura, Osaka. Buttons. 668
1769. Gisuke Tsukamoto, Kyoto. Fans. 667
1770. Hanzaburo Imamura, Nagasaki. Embroideries. 669
1771. Heibei Watatani, Ishikawa. Embroidery. 665
1772. Higher Girls' Training Institute, Ishikawa. Embroidery work. 665
1773. Hikosaburo Watani, Osaka. Tapestry. 670
1774. Ichibei Kawagishi, Kumamoto. Fans. 667
1775. Ichitaro Morimura, Tokyo. Fans. 667
1776. Ikunosuke Yoshimasu, Osaka. Artificial flowers. 666
1777. Inosuke Matsui, Tokyo. Cigar case. 665
1778. Isuke Nakajima, Kyoto. Fans. 667
1779. Iwazo Mitani, Osaka. Tapestry. 670
1780. Jimbei Kawashima, Kyoto. Embroideries. 665
1781. Jisaburo Sasaki, Kyoto. Fans. 667
1782. Jokyo Teiami, Kyoto. Fans. 667
1783. Kakubei Noguchi, Kyoto. Tapestry. 671
1784. Kambei Kawase, Kyoto. Tapestry (handmade). 670
1785. Kansai Trading Company, Kyoto.
 a Fans. 667
 b Embroideries. 669
 c Tapestry. 670
1786. Katsu Makita, Tokyo. Laces. 664
1787. Kichibei Furusawa, Kyoto. Fans. 667
1788. Kichibei Nakamura, Tokyo. Card receivers. 665
1789. Kihei Kawakatsu, Osaka. Fans. 667
1790. Kisaburo Ishizumi, Kyoto. Fans. 667
1791. Kisaburo Nishio, Tokyo.
 a Artificial flowers. 666
 b Fans. 667
 c Pins. 668
1792. Kitaro Yoshizawa, Tokyo. Embroideries. 665
1793. Kiyoko Mochigase, Tokyo. Laces. 664
1794. Kosei Association, Saga. Tapestry. 670
1795. Kumekichi Shiomasu, Nagasaki. Embroidery. 665
1796. Kyoto Itomono Association, Kyoto. Threads for embroidering. 664
1797. Kyugoro Hirano, Kyoto. Fans. 667
1798. Kyujiro Yamada, Osaka. Artificial flowers. 666
1799. Kyukichi Miki, Kagawa. Fans. 667
1800. Manji Hattori, Tokyo. Artificial flowers. 666
1801. Mankich Tanaka, Kagawa. Fans. 667
1802. Masanori Hanawa, Kyoto. Fans. 667
1803. Masataro Sakurai, Osaka. Fans. 667
1804. Matsujiro Kawamoto, Osaka. Tapestry. 670
1805. Mohachi Saito, Kagawa. Fans. 667
1806. Mohei Inoue, Aichi. Fans. 667
1807. Naojiro Teshigawara, Gifu. Fans. 667
1808. Naotaro Suzuki, Tokyo. Cuff buttons. 668
1809. Nao Tsuruta, Tokyo. Embroideries. 669
1810. Narazo Fukuoka, Osaka. Embroidered plaques. 669
1811. Otojiro Okuma, Tokyo. Fans. 667
1812. Rinosuke Toyama, Osaka. Hemp tapestry. 670
1813. Risaburo Oda, Shizuoka. Fans. 667
1814. Rishichi Tanaka, Kyoto. Embroideries. 665
1815. Risuke Sugiyama, Kobe. Tapestry. 670
1816. Saburobei Kanasawa. Fans. 667
1817. Saijiro Shiba, Osaka. Tapestry. 670
1818. Sanemon Mitzushima, Tokyo. Embroideries. 665
1819. Seishichi Tanaka, Kyoto. Embroideries. 665
1820. Seitaro Ishikawa, Kagawa. Fans. 667
1821. Seizaemon Ishikawa, Kanagawa. Trimmings. 668
1822. Shigezo Rinami, Kyoto. Fans. 667
1823. Shimbei Endo, Kyoto. Fans. 667
1824. Shinsuke Nakamura, Osaka. Artificial flowers. 666
1825. Shiro Katayama, Kagawa. Fans. 667
1826. Shohei Shiino, Kanagawa. Embroidery work. 669
1827. Shotaro Fujimoto, Osaka. Tapestry. 670
1828. Shotaro Ohashi, Kobe. Tapestry. 670
1829. Sobei Wakano, Osaka. Tapestry. 670
1830. Sojiro Hashino, Osaka. Tapestry. 670
1831. Soshichi Kumai, Osaka. Artificial flowers. 666
1832. Soshiro Nishita, Kyoto. Fans. 667
1833. Sozaemon Nishimura, Kyoto. Art embroidery works. 669
1834. Sozaemon Seko, Hyogo. Embroidered screens. 670
1835. Shunshi Shimada, Kumamoto. Fans. 667
1836. Tadamasu Hayashi, Tokyo. Embroideries. 669
1837. Taemon Abe, Ishikawa.
 a Table cover. 665
 b Embroidered silk fans. 667
1838. Takejiro Kokama, Kagawa. Fans. 667
1839. Tamuro Okamoto, Ishikawa. Embroidery. 665
1840. Tasaburo Morimoto, Kyoto. Fans. 667
1841. Tatsuo Sawada, Okayama. Fans. 667
1842. Tobei Tomiha, Kagawa. Fans. 667
1843. Tokujiro Sasa, Kyoto. Fans. 667
1844. Tokyo Lace Institute, Tokyo. Laces. 664

DEPARTMENT H.—MANUFACTURES.

1845. Torajiro Shiba, Osaka. Tapestry. 670
 1846. Toramatsu Suzuki, Aichi. Fans. 667
 1847. Toyo Aoki, Tokyo. Rings and ear-rings. 668
 1848. Tsunejiro Shida, Aichi. Embroideries. 669
 1849. Tsuneshichi Kamedani, Kyoto. Fans. 667
 1850. Umajiro Kumihashi, Kagawa. Fans. 667
 1851. Wakichi Matsui, Hyogo. Cotton and hemp tapestry. 670
 1852. Wakichi Omura, Tokyo. Embroideries. 669
 1853. Yanosuke Kawamura, Kyoto. Fans. 667
 1854. Yasubei Fukuda, Kyoto. Fans. 667
 1855. Yasubei Yamamoto, Shizuoka. Fans. 667
 1856. Yasuke Takamasu, Osaka. Fans. 667
 1857. Yoichi Ishikawa, Kagawa. Fans. 667
 1858. Yoichi Kubota, Osaka. Fans. 667
 1859. Yoshiji Watatani, Ishikawa. Embroidery. 665
 1860. Yoshimatsu Matsuura, Kanagawa. Embroidery work. 665
 1861. Yoshinosuke Kimura, Kyoto. Fans. 667
 1862. Yutaro Mizuto, Ishikawa. Embroidered fans. 367
 1863. Yozo Watanabe, Tokyo. Embroideries. 669
 1864. Zembei Ono, Kyoto.
 a Lace. 664
 b Embroideries. 665
 c Fans. 667
 1865. Zembei Watanabe, Kyoto. Fans. 667
 1866. Zenkichi Shibamura, Osaka. Tapestry. 670

GROUP 107.

1867. Kikumatsu Kato, Tokyo.
 a Hair pins. 673
 b Combs. 675
 1868. Kosuke Kano, Osaka. Tooth brushes. 675
 1869. Naotaro Nakada, Osaka. Tooth brushes. 675
 1870. Osaka Seigyo Company, Osaka. Brushes. 675
 1871. Ryunosuke Minakuchi, Osaka. Tooth brushes. 675
 1872. Sanen Company, Kawaga. Straw brushes. 675
 1873. Shoeigumi, Osaka. Combs. 675
 1874. Sosuke Hoshino, Tokyo. Combs. 675
 1875. Takijiro Kutsutani, Tokyo.
 a Hair pins. 673
 b Combs. 675
 1876. Tokichi Kawabe, Osaka. Brushes. 675
 1877. Tokusaburo Ise, Osaka. Combs. 675
 1878. Toramatsu Suzuki, Nagoya. Brushes. 675

GROUP 108.

1879. Arinobu Mitani, Fukuoka. Parasols. 682
 1880. Chiryō Hirose, Ishikawa. Cigarette case (lacquered). 680
 1881. Chyojiro Okada, Tokyo.
 a Satchels. 678
 b Leather work. 680
 c Canes. 681
 1882. Daisuke Nagata, Hyogo. Bamboo canes. 681
 1883. Ganzo Nakamura, Nagoya. Umbrella handles. 682
 1884. Genshiro Shimizu and six others, Gifu. Canes. 681
 1885. Genzo Iwamoto, Hyogo. Bamboo canes. 681
 1886. Gunshyodo, Hiroshima. Canes and handles of umbrellas. 681
 1887. Hakata Association, Fukuoka. Hakata silk bags. 680
 1888. Hampei Koshino, Kanazawa. Lacquered cigarette case. 680
 1889. Himeji Trading Company, Hyogo. Leather and imitation leather works. 680
 1890. Hiroshima Parasol Company, Hiroshima. Parasols. 682
 1891. Hyoemon Nagakura, Shizuoka. Satchel made with sago palm. 678
 1892. Ichibei Kawagishi, Kumamoto. Dress suit case. 678
 1893. Ichimatsu Oda, Osaka. Valises. 678
 1894. Ichizaemon Matsumoto, Tokyo. Excursion lunch set. 676
 1895. Iemon Tanimura, Tokyo. Match boxes. 680
 1896. Jennosuke Fukumoto, Kanagawa. Purses. 678
 1897. Jinemon Wada, Osaka. Umbrellas. 682
 1898. Jinzaburo Goto, Kumamoto. Japanese umbrella. 682
 1899. Kanzaemon Watanaba, Kanagawa. Canes. 681
 1900. Kichibei Nakamura, Tokyo. Purses. 678
 1901. Kichibei Yoshida, Hyogo. Bamboo canes. 681
 1902. Kijyuro Kitamura, Osaka. Canes. 681
 1903. Kimpei Harishige, Tokyo. Feather fabric. 678
 1904. Kisaburo Matsumoto and nine others, Hiroshima.
 a Lunch basket. 676
 b Satchels, etc. 678
 c Collar, cuff and cigar cases. 680
 d Canes. 681
 1905. Kisaburo Nishio, Tokyo. Smoking pipe. 680
 1906. Kumagoro Taniguchi, Tokyo. Leather work. 680
 1907. Matsuzo Ichimasa, Osaka. Mirrors. 678
 1908. Minoru Kishida, Hyogo. Handbags. 678
 1909. Mitsuzo Hirai, Hiroshima. Canes. 681
 1910. Mondo Tanaka, Osaka. Carved wood works. 682
 1911. Mosuke Kuroda, Nagoya. Boxes of lacquered papier-maché. 680

JAPAN.

1912. Motaro Awamura, Osaka. Cigar cases. 682
1913. Naojiro Tsehigawara, Gifu. Parasols. 682
1914. Naosaburo Mitani, Tokyo. Smoking pipes. 680
1915. Parasol Manufacturers' Association, Kagawa. Parasols. 682
1916. Sadajiro Hosomi, Osaka. Bags. 680
1917. Seizo Yamamoto, Tokyo. Imitation leather works. 680
1918. Senroku Ikeda, Saga. Tobacco pouch and pipe. 680
1919. Setsu Endo, Gifu. Parasols. 682
1920. Shichihei Oita, Osaka. Cane heads. 681
1921. Takijiro Kutsutani, Tokyo.
a Valises. 678
b Fancy leather work. 680
c Canes. 681
1922. Taro Shimosuke, Kyoto. Baskets and matings. 676
1923. Tomozo Watanabe, Tokyo. Cigar cases. 680
1924. Torakiyo Sato, Tokyo. Parasols. 682
1925. Toyohachi Yasuda, Gifu. Parasols. 682
1926. Toyosaburo Yoshioka, Tottori. Parasols. 682
1927. Toyotaro Kusakari, Tokyo. Match boxes. 680
1928. Tsunejiro Kokagi, Nara. Canes. 681
1929. Usaburo Okamiya, Tokyo. Umbrellas and parasols. 682
1930. Yamaga Parasol Manufacturing Company, Kumamoto. Parasols. 682
1931. Yasubei Yamamoto, Shizuoka. Canes. 681
- GROUP 109.**
1932. Lacquer Work Company, Tokyo. Lacquered water-proof cloth. 692
1933. Toru Yano, Osaka. Gutta percha waterproof cloth. 692
- GROUP 110.**
1934. Buemon Iwasa, Tokyo. Dolls. 693
1935. Eijiro Matsuyama, Shizuoka. Lacquer work. 695
1936. Genbei Sakata, Osaka. Drums. 693
1937. Gihei Hono, Toyama. Lacquer ware. 695
1938. Hachirōji Okuda, Shizuoka. Lacquer work. 695
1939. Hachisaburō Fujita, Fukushima. Lacquer work. 695
1940. Hanjirō Shiotani and one other, Toyama. Lacquer work. 695
1941. Haruji Kanamori, Nagoya. Lacquer ware. 695
1942. Hatsuho Shimizu, Kyoto. Dolls. 693
1943. Heibei Wada, Osaka. Dolls and bags. 693
1944. Hidekichi Yasui, Hyogo. Bows and arrows. 693
1945. Hisa Nogi, Osaka. Paper toys. 693
1946. Hyōemon Nagakura, Shizuoka. Lacquer work. 695
1947. Ihei Ikedani, Shizuoka. Lacquer work. 695
1948. Inaba & Co., Shizuoka. Lacquer work. 695
1949. Kamejirō Shima, Toyama. Lacquer work. 695
1950. Kamejiro Shinano, Osaka. Toys. 693
1951. Kamekichi Ōsaka, Akita. Lacquer work. 695
1952. Kano Kitahara, Aichi. Kites. 693
1953. Kansai Trading Company, Kyoto. Dolls. 693
1954. Kanzaemon Watanabe, Kanagawa. Fancy bamboo articles. 695
1955. Karaku Oga, Osaka. Toys. 693
1956. Keizo Sakata, Osaka. Picture books. 695
1957. Kichiemon Sato, Shizuoka.
a Bamboo baskets. 694
b Lacquer work. 695
1958. Kichitaro Hasegawa, Tokyo. Toys. 693
1959. Kichijirō Honho, Toyama. Lacquer ware. 695
1960. Kikutarō Nakayama, Toyama. Lacquer ware. 695
1961. Kinjirō Takagi, Nagoya. Plaque. 695
1962. Kiyomatsu Kikuchi, Fukushima. Lacquer work. 695
1963. Kizaemon Takase, Fukushima. Lacquer work. 695
1964. Kohei Iwati, Osaka. Toy Carts. 693
1965. Koho Takatani, Osaka. Hanging pictures. 695
1966. Kuzo Kajida, Osaka. Plaques (of pictures). 695
1967. Kyōkichi Honho, Toyama. Lacquer ware. 695
1968. Kyubei Araki, Fukui. Lacquer ware. 695
1969. Kyuemon Yazawa, Shizuoka.
a Bamboo work. 694
b Bird cage. 695
1970. Kyujiro Tamai, Nara. Lacquer ware. 695
1971. Kyusuke Suzuki, Fukushima. Lacquer work. 695
1972. Lacquer Work Company, Aomori. Lacquer work. 695
1973. Magobei Sakuda, Osaka. Toys. 693
1974. Manji Hattori, Tokyo.
a Dolls. 693
b Flower baskets. 695
1975. Masashichi Nakai, Hyogo. Bamboo work. 695
1976. Minoru Kishida, Hyogo. Hanging pictures. 695
1977. Mosuke Kuroda, Nagoya. Lacquer work. 695
1978. Nihei Yamada, Osaka. Toys. 693
1979. Ninichi Okada, Tokyo. Fancy articles. 695
1980. Oho Igarashi, Hyogo. Picture frames. 695
1981. Rihei Okamoto, Huogo. Lacquer vase. 695
1982. Rihei Suzuki, Fukushima. Lacquer work. 695
1983. Risaburo Nozawa, Osaka. Stuffed animals. 693
1984. Risanji Isogai, Shizuoka. Lacquer work. 695

DEPARTMENT H.—MANUFACTURES.

1985. Risuke Ogura, Osaka. Picture book. 695
1986. Seijiro Misaki, Kyoto. Toys and fancy articles. 693
1987. Sekko Koyama, Hyogo. Screens. 695
1988. Sennosuke Nakagawa, Shizuoka. Lacquer pictures. 695
1989. Senzō Nakagawa, Shizuoka. Lacquer work. 695
1990. Shigeji Iwamoto, Hyogo. Hanging pictures. 695
1991. Shōbei Echigo, Akita. Lacquer work. 695
1992. Shōjurō Ishioka, Akita. Lacquer work. 695
1993. Shotaro Ohashi, Hyogo. Screens and hanging pictures. 695
1994. Shozaburo Tsuge, Tokyo. Bamboo baskets. 695
1995. Shunji Kikuchi, Fukushima. Lacquer work. 695
1996. Sobei Wakano, Osaka. Paper toys. 693
1997. Sotaro Suzuki, Kanazawa. Pictures. 695
1998. Tadasaburō Hattori, Nagoya. Lacquer Cloisonne flower vase. 695
1999. Taheiji Tatsuno, Toyama. Lacquer ware. 695
2000. Takijiro Kutsutani, Tokyo. Toys. 693
2001. Tamekichi Ito, Tokyo. Bamboo articles. 695
2002. Tatsunosuke Akamatsu, Osaka. Plaques (of pictures). 695
2003. Tatsunosuke Yoshida, Nara. Lacquer ware. 695
2004. Tatsuzō Kondo, Fukushima. Lacquer work. 695
2005. Tazō Morita, Nara. Lacquer ware. 695
2006. Tazo Yasuda, Hyogo. Hanging pictures and screens. 695
2007. Tetsutarō Takahashi, Shizuoka. Lacquer work. 695
2008. Tokubei Hayashi, Osaka. Dolls. 693
2009. Tokujiro Taniguchi, Kyoto. Toys and fancy articles. 693
2010. Tokusaburō Kobayashi, Toyama. Lacquer ware. 695
2011. Tokutarō Ōno, Shizuoka. Lacquer work. 695
2012. Torakiyo Sato, Tokyo.
a Dolls. 693
b Bonbon box. 694
c Fancy articles. 695
2013. Toyokichi Akagi, Fukushima. Lacquer work. 695
2014. Tsugihatsu Takayanagi, Toyama. Lacquer ware. 695
2015. Tsunekichi Kimura, Toyama. Tortoise shell incense burner. 695
2016. Tsunesaburo Aoki, Osaka. Plaque (picture). 695
2017. Tsuyoshi Murakami, Osaka. Toys. 693
2018. Uhei Shinozaki, Fukushima. Lacquer work. 695
2019. Wakasanuri Lacquer Work Company, Fukui. Lacquered boxes. 695
2020. Wasaburō Yamamoto, Nagoya. Trays and vase. 695
2021. Yaichiro Tanaka, Kyoto. Toys. 693
2022. Yaozō Mameda, Fukui. Lacquer ware. 695
2023. Yashichirō Kotake, Toyama. Lacquer ware. 695
2024. Yasubei Yamamoto, Shizuoka. Lacquer and inlaid work. 695
2025. Yasubei Yokohama, Hyogo. Screens and hanging pictures. 695
2026. Yasusaburo Osumi, Nara. Lacquer ware. 695
2027. Yohei Saitō, Fukushima. Lacquer work. 695
2028. Yonekichi Mamba, Tokyo. Toys. 693
2029. Yoshitaka Suwa, Kanazawa. Carving on lacquering. 695
2030. Yukichi Ishii, Toyama. Lacquer ware. 695
2031. Zenjiro Suzuki, Fukushima. Lacquer work. 695
2032. Zenshichi Matsumoto, Hyogo. Screens. 695
2033. Zensuke Komae, Toyama. Lacquer ware. 695

GROUP 111.

2034. Chojiro Nitta, Osaka. Curried leather. 698
2035. Daijiro Kumagai, Tokyo. Embossed leather. 705
2036. Iemon Sato, Tokyo. Leather work. 705
2037. Jihei Suga, Hyogo. Leather. 697
2038. Kocchiro Yura, Osaka. Curried leather. 698
2039. Kokichi Tanaka, Tokyo. Leather work. 705
2040. Nagasaki Leather Manufacturing Company, Nagasaki. Leather. 697
2041. Seijiro Ino, Osaka. Curried leather. 698
2042. Shinjiro Matsukane, Tokyo. Leather work. 705

GROUP 112.

2043. Seinosuke Yamamoto, Osaka. Scales. 706

GROUP 113.

2044. Yagoro Getsuyama, Osaka. Swords. 717

GROUP 114.

2045. Ichimatsu Hashimoto, Osaka. Lamps. 719
2046. Jyubei Kiri, Osaka. Lamp Chimneys. 719
2047. Kansai Trading Company, Kyoto. Lanterns. 720
2048. Kunimatsu Nishimori, Osaka. Lanterns. 720
2049. Genshiro Shimizu, Gifu. Lamp stand. 720
2050. Genzo Nakamura, Nagoya.
a Lamp shades. 719
b Lanterns. 720
2051. Masaki Okamoto, Gifu. Lamp. 720
2052. Miyoshi Electric Apparatus Manufactory, Tokyo. Electric light fixtures. 722

JAPAN.

2053. Moto Kamiya, Gifu. Lanterns.	720
2054. Naojiro Teshigawara, Gifu.	
<i>a</i> Lamp shades.	719
<i>b</i> Lanterns.	720
2055. Nippon Lamp Shade Manufacturing Company. Osaka. Lamp shades.	719
2056. Shichiroemon Tamai, Tokyo. Lanterns.	720
2057. Takijiro Aita, Tokyo. Lanterns.	720
2058. Toramatsu Suzuki, Nagoya.	
<i>a</i> Lanterns.	720
<i>b</i> Candlesticks.	721
2059. Toshimichi Miyazaki, Gifu. Lanterns.	720
2060. Toyotaro Kusakari, Tokyo. Candlesticks.	721
2061. Zenshichi Izumi, Gifu. Lanterns.	720

GROUP 115.

2062. Hyozo Yoshikawa, Osaka. Duster.	730
2063. Ikumatsu Okumura, Tottari. Lacquered cigar tray.	730
2064. Kanamasu & Co., Shizuoka. Papier-maché tray.	730
2065. Kanjiro Machida, Ibaraki. Cake tray.	730
2066. Kichimatsu Sugimoto. Osaka. Feather brooms and screens.	730
2067. Kisaburō Natsumoto, and nine others. Hiroshima. Dishes, trays, flower vases, etc.	730
2068. Kyuemon Yazawa, Shizuoka. Tray (fern work).	730
2069. Seiichi Ozawa, Shizuoka. Bamboo bread tray.	730
2070. Seizamon Ito, Osaka. Pocket warmer; etc.	727

2071. Tokyokichi Katada, Shizuoka. Lacquer tray.	730
2072. Yasaburō Minatomoto, Wakayama. Lacquer plates.	730

GROUP 116.

2073. Gonjiro Miya, Iwate. Iron pots.	732
2074. Hambei Nakamura, Osaka. Tea pots.	732
2075. Hankichi Suzuki, Iwate. Iron pots.	732
2076. Harujiro Arisaka, Iwate. Iron pots.	732
2077. Heigoro Shimazaki, Saitama. Iron kettles.	732
2078. Kamejiro Uta, Tokyo. Hollow ware of iron.	733
2079. Manji Takahashi, Iwate. Iron pots.	732
2080. Nizaemon Koizumi, Iwate. Iron pots.	732
2081. Shinshichi Yoshida, Osaka. Tea pots.	732
2082. Tomiemon Arisaka, Iwate. Iron pots.	732
2083. Tokunosuke Suzuki, Iwate. Iron pots.	732
2084. Yasuke Sano, Osaka. Kettles.	327

GROUP 119.

2085. Kaneyoshi Sakai Osaka. Knives and scissors.	751
2086. Koryo Harimoto, Osaka. Safes.	752
2087. Mike Trading Company, Hyogo. Shears and hair tweezers.	751
2088. Shinshichi Yoshida, Osaka. Edge tools.	749
2089. Tetsukichi Senga, Osaka. Razors.	751

NORWAY.

GROUP 90.

1. Eide, Amalia, Syd-Flatanger. Portiers; chair covers; wall hangings.	568
2. Hansen, Frida, Christiania. Pictorial hanging.	568
3. Norsk Husflids Skole, Liadalen. Art fabrics; model of hand-loom.	568

GROUP 93.

4. Drammens Jernstøberi og Mek. Varksted, Christiania. Statuettes and bust.	585
---	-----

GROUP 96.

5. Anganes, H. A., Hardanger. Birch-wood tankard, box, breastpin and knife.	598
6. Bakkestøjl, O. H., Telemarken. Turned wood.	598
7. Björvik, Ole R., Bygstad. Beer tankards.	598
8. Borgersen, B., Svelvig. Wood carving.	598
9. Dagestad, Magnus M., Hardanger. Carved articles.	598
10. Djupvik, Hans, Strandvik. Box and breastpin.	598

11. Jacobsen, Edward, Lesjeskogen. Boxes.	598
12. Kinservik, Lars T., Hardanger. Wood carvings.	598
13. Lofthnus, Johs., Hardanger. Boxes, card receiver, etc.	598
14. Norsk Husflids Skole, Liadalen. Wood carvings.	598
15. Nystog, Tollef O., Telemarken. Drinking horn.	598
16. Sjøthum, Nils, Hardanger. Tankard, box and frame.	598
17. Skaaltveit, Guthorm, North Hardanger. Wood carvings.	598
18. Sundvold, Erland O., Vinje, Vosse-Stranden. Wood carvings.	598
19. Tvedt, Johannes, Hardanger. Wood carvings.	598
20. Utne, Sjur Oddsens, Hardanger. Wood carvings.	598

GROUP 97.

21. Andersen, David, Christiania.	
<i>a</i> Gilt enameled coffee services; lamps.	604
<i>b</i> Silver tableware.	605
<i>c</i> Fancy articles	607

DEPARTMENT H.—MANUFACTURES.

22. Gunnene, Torchel A., Gvarø, Skien. Drinking cups; tin tankard, etc. 608
23. Hammer, M., Bergen.
a Gilt tableware. 604
b Silver tableware. 605
c Spoons; fancy articles. 607
24. Rudström, J. A., Fredrikstad. Can- delabra, tankard and chalice. 608
25. Tostrup, J., Christiania.
a Gilt tableware. 604
b Fancy articles. 607

GROUP 98.

26. Andersen, David, Christiania.
a Gold ornaments. 612
b Diamond jewelry. 613
c Filigree jewelry. 616
27. Hammer, M., Bergen.
a Ornaments and antique silver ware. 612
b Filigree jewelry. 616
28. Tostrup, J., Christiania.
a Gold ornaments. 612
b Filigree jewelry. 616

GROUP 99.

29. To, Kristian Olsen, Telemarken. Sil- ver watches. 617

GROUP 101.

30. Norsk Husflids Skole, Liadalen. Ham- mocks. 633
31. Norsk Husflids Skole, Liadalen. Ar- ticles made from root fibres and straw. 635

GROUP 103.

32. Bekhus, Johanne, Rawland, Tele- marken. Home-woven rug. 649
33. Berg, Hans, Stenkjier. Dyed home- spuns. 641
34. Hauglan, Kjerstina, Traesvig. Home woven rugs. 649
35. Prahl, Hildur, N., Bergen. Home woven rugs. 649

GROUP 104.

36. Gunnene, Torchel A., Gvarø. Na- tional costumes. 653
37. Hallen, Brodrene, Christiania. Gloves. 657
38. Helland, Gunhild, Telemarken. Na- tional costume. 653
39. Sundt & Co., Bergen. National cos- tumes. 653

GROUP 106.

40. Drivdahl, Marie, Christiania. Art embroidery. 669
41. Hansen, Fritze, Fredrikshald. Em- broidered handkerchief. 665

42. Holm, Dorteia, Molde. Frame of leather work. 666
43. Holm, Lina, Stavanger. Artistic em- broideries. 669
44. Maakestad, Guro Larsen, North Har- danger. Embroideries. 665
45. Naesheim, Brita, Hardanger. Afghans and embroidery. 665
46. Norsk Husflids Skole, Liadalen. Em- broideries. 665
47. Olson, Kristian, Telemarken. Em- broidery. 655
48. Skaaltveit, Britha T., North Hardan- ger. Embroidery. 665
49. Thrane, Ragnhild, Christiania. Imita- tion Gobelin hanging. 670
50. Tvedt, Brita, Hardanger. Embroidery. 665
51. Wesenberg, Signy, Bergen.
a Embroidery. 665
b Art embroidery. 669

GROUP 107.

52. Norsk Husflids Skole, Liadalen. Brushes. 675

GROUP 110.

53. Norsk Husflids Skole, Liadalen, Christiania. Hand-painted articles. 695
54. Olson, Kristian, Telemarken. Dolls. 695

GROUP 111.

55. Bergen Committee, Bergen.
a Dressed catfish skins, seal skins. 696
b Seal leather. 702
56. Bruhn, E. C., Trondhjem. Calfskins and sheepskins. 696

GROUP 113.

57. Hagen, L. H., & Co., Christiania.
a Rifles. 714
b Snow-shoes; skates. 718
58. Olson, Kristian, Telemarken. Powder- horn, etc. 718

GROUP 115.

59. Remmen & Madsen, Kragero. Stoves. 725

GROUP 121.

60. Hesteskosomfabrik Dennorske, Chris- tiania. Horseshoe nails. 752
61. Aktiebolaget Hermes, Christiania. Automatic blanket unrolling apparatus.
62. Andersen, Johs, Christiania. Mud protector.

SIAM.

DEPARTMENT A.

GROUP 1.

1. Rice of various kinds. 6

GROUP 2.

2. Biscuits of rice, lotus, sweet pea, grass root, etc. 14

GROUP 3.

3. Sugar. 18

GROUP 4.

4. Potatoes, stock roots, etc. 28

GROUP 6.

5. Dried fish, meats and fowl. 86

GROUP 8.

6. Siamese cigars. 52
7. Tobaccos. 51

GROUP 9.

8. Cotton. 53
9. Hemp. 59
10. Silk. 61

GROUP 16.

11. Agricultural implements and farmers' tools. 84

GROUP 17.

12. Bones, tortoise shells, etc. 90
13. Elephants, tusks, plain and carved, buffalo horns, deer antlers, wild cows' horns, rhinoceros' horns, ceroulus' horns, horn of chelonia, etc. 90

DEPARTMENT B.

GROUP 21.

14. All varieties of Siamese fruits in wax and in paintings. 138
15. Jams. 141
16. Preserved and candied fruits. 140

GROUP 22.

17. Flowers in wax. 171

GROUP 24.

18. Vegetables and fruit seeds. 180

DEPARTMENT D.

GROUP 38—CLASS 254.

19. Casting, circular, square, scoop, drag, stationary and "soom" fish nets; trapping, etc., standing, cap-shaped and washing baskets; funnel, and other traps; weirs, spears, eel forks, harpoons, tridents, pawn scoops, hooks, rods, and lines, and basket fence. 254

GROUP 40.

20. Shell and horn work. 278

DEPARTMENT E.

GROUP 42.

21. Gold, tin, iron and other ores; rubies, sapphires and other gems. 291

DEPARTMENT G.

GROUP 85—CLASS 528.

22. Boats (Models). His Majesty's barge, state barges, nobleman's boat, gondola, waat boats, Lampanee boat, pet boats, and all kinds of fishing and pleasure craft.

DEPARTMENT H.

GROUP 89.

23. Six rolls of plow paper and 78 Khoi books.

GROUP 90.

24. Hat racks. 567

GROUP 91.

25. China rice bowls and covers, full sets of rice and curry bowls, sets of perfumery cups and covers, sets of powder cups and covers, sets of tea cups and spittoons. 576
26. Earthen goblets, jugs, mortars, etc. 567

GROUP 94.

27. Fancy scent bottles. 593

GROUP 96.

28. Carvings of chess men, boxes, brushes, animals, cigar stands, and figures in ivory, wood, etc.

GROUP 97—CLASS 604.

29. Metal Work, Red Gold Articles. Spittoons, tea pots and trays, saucers, cups, bowls, jugs, betel boxes and betel services, set with diamonds, spittoons set with diamonds.
30. Gilded. Water bowls, trays and cups, betel sets and boxes, tea tray, medicine cups, belts and spittoons.
31. Gilded and Enameled in Blue. Water bowls, goblets, trays and covers, tea pot and tray, betel boxes and sets, toilet trays and set, cigar cases.

CLASS 607.

32. Silver Articles. Rice bowls and covers, laos bowls, betel trays and sets, tea trays, spittoons, water bowls, urns, pots, cups and covers, vases, belts, toilet service, picnic case and snuff box.

CLASS 608.

33. Enameled, Gilded, etc. Bowls, ladle, salvers, urns, water pitchers, toilet sets, betel sets, spittoons, basins, vases, cigarette case, medicine cup and tray.
34. Brass Utensils. Bowls and trays, fruit knives, seed picks, spittoons, eating services, water bowls and dippers, betel mortars and pestles, engraved bowls and trays, rice pots and ladle.
35. Copper Utensils. Rice pots, cake pans and water pots.

DEPARTMENT H.—MANUFACTURES.

36. **Pearl Inlaid Work.** Salvers, sacrificial trays, boxes, plaques, betel trays, spittoons, medicine chest, inlaid tablets, bowls, and cases.

CLASS 575.

37. **Pottery.** Earthen stoves, pots, pans, mortars, figures of animals, flower pots and sets of perfumery pots.

CLASS 635.**GROUP 101.**

38. **Mattings.** Forty-eight mats of various sizes and materials.

GROUP 108.

39. Laos umbrella. 682

GROUP 110.

40. Lacquered boxes and bowls. 695

GROUP 111.

41. Tiger, leopard, deer, buffalo, cow, otter, armadillo, python, rays, rhinoceros and rabbit skins. 696

GROUP 113.

42. Siamese bow. 718

GROUP 119.

43. Gold-beaters' anvils and hammers, shears, tongs, wire mould, files, iron plane-knives for cutting and hulling the betel nut and for other uses.

DEPARTMENT L.**GROUP 151.**

44. Collection of photographs and views. 871

GROUP 154.

45. Specimen sets of Siamese money. 897

GROUP 158.

46. Guitar, drums, tambourine, violins, gongs, cymbals, oboe, organ and harmonicas.

DEPARTMENT N.**GROUP 19.**

47. **Siam.** Wax, etc.; shellac, cardamon, resinous exudations, dye woods gum, Benjamin, gall nuts, bird's nest, various roots, teak boards, knot of pradoo wood, burrel of Tabaak wood, specimens of Pradoo burrel, board of tamarind wood, end of squared teak log, log of Chingchan wood, marit wood, teak table logs, jack fruit wood, thirty specimens of Siam timber.
48. **Rattan Woods.** Varieties of rattan in coils, bundles, etc., and canes, rattan covers for glass.
49. **Bamboo Woods.** Fourteen varieties of bamboo woods and wood-working tools.

50. **Basket Work.** Trays, salvers, cigar stands, betel and tobacco boxes and 134 specimens of hamper, betel, market, rice, Burnese, flower, string, plat betal, drying deep and clothes baskets.

51. Native trees in wax. 113

GROUP 160.

52. **Siam.** Models of household utensils; models of houses; models of floating houses; models of palace landing forts and palace landing building; priests' fans, bags and garments.

53. **Malay Clothing.** Silk trousers, turban cloths, and silk jackets for men and women.

54. **Song Dam Laos.** Cotton scarfs and jackets for men and women; trousers.

55. **Luang Prat Bang Laos.**—Gold-threaded scarfs, skirts, quilts, bedspreads, and turban cloths.

56. **Puan Laos.** Men's and women's costumes.

57. **Lu Laos.** Woman's skirt, man's jackets and trousers, laos bags and napkins.

58. **Chiengmai Laos.** Gold embroidered and common scarfs.

59. **Mons.** Indian hemp, raw and spun; various cloths, skirts, aprons, jackets, shoes and cap.

GROUP 172.

60. **Needle work.** Pillows, folding cushions, raised gold embroidery, tea cozs, silk Caps, silk embroidered standing Screens, silk hat covers, priest's bag and embroidered fruits, flowers, arms and historical scenes.

61. **Clay Modeling.** Women crouching, old woman, boys in costumes, girls in costumes, girls standing, man in holiday dress, old woman with cane, man sitting, man in shirt-sleeves, peasant, blind beggars, Chinese cooly eating, Chinaman at table, young woman on floor, old woman, boys, Siam, Chin boys, bracelets, etc., ornamental wall piece, table piece (shells), wall piece (quarrel), beggar and monkey, man and axe, plates of fish, plates of frogs, plates of birds, plates of chameleons, white rabbit, leopard, pair buffaloes, pair oxen, cat, small gold and silver articles and rings.

62. **Wax.** Model of a palace.

63. **Bead work.** Baskets, betel tray and set of nine pieces, tea cozy, biscuit box, bucket, small cups, flowers, game, photograph frames, chess board and set and saka board and set.

64. **Silk Clothing.** Panungs of silk, gold and embroidered and gold and silver threaded, panungs, silk sarongs, chantaboon, silk bed spreads, creased scarfs, silk scarfs, bathing clothes, a prince's gold and silver state robe girdle, silver and gold pantalettes, nobleman's robe, girdle and doublets, princess' shawls the queen's scarf, silk and gold lace shawls, silk crape rajkots, red silk girdles, children's silk belts, gold-threaded money bags, betel pockets, gold lace aprons, tobacco pouches, gold lace bat cover.

SWEDEN.

GROUP 87.

1. Jönköpings Tändsticksfabriks Aktiebolag, Jönköping. Matches and materials. 550
2. Kritbruksbolaget i Malmö, Malmö. Chalk. 544
3. Skanaka Attikfabriken, Perstorp.
 - a Organic and mineral acids. 543
 - b Chemists' and druggists' wares and supplies. 548
4. Södertelje Tändsticksfabrik, Södertelje. Matches. 550
5. Tändsticksfabriks Aktiebolaget Vulcan, Gothenburg. Matches and flaming lights. 550

GROUP 88.

6. Aktiebolaget Barmangens Tekniska Fabrik, Stockholm. Inks. 552
7. Tekniska Aktiebolaget Flora i Gefle, Gefle. Inks. 552

GROUP 89.

8. Anderson, N. B., Stockholm. Book-covers. 561
9. Beck, F., & Son, Stockholm. Articles of leather-intarsia. 561
10. Engstrand, Sophie, Stockholm. Samples of ruling, type-setting and hand printing. 561
11. Gustafsfors Fabriken Aktiebolag, Gustafsfors. Wrapping paper. 558
12. Hedberg, Gustaf, Stockholm. Leather book-covers, cases, etc. 561
13. Herzog's, P., Bokbinderi och Bokforlags Aktiebolag, Stockholm. Bound hymn-books. 561
14. Holmens Bruks & Fabriks Aktiebolag, Norrköping. Paper. 560
15. Lindmansson, J. A. W., Stockholm. Book-covers. 561
16. Munksjö Aktiebolag, Jönköping.
 - a Building boards and paper. 557
 - b Wrapping paper. 558
17. Munktells, J. H., Pappersfabriks Aktiebolag, Grycksbo. Filter-paper; samples and pulp. 556
18. Nilsson, Vitalis, Stockholm. Specimens of book-binding. 561
19. Tengwall, Andr., Helsingborg. Letter-file, index, and copying book. 564

GROUP 90.

20. Åhrberg, Ebba, Upsala. Curtains. 568
21. Andersson, Aug., Stockholm. Mirror and picture frame. 569
22. Aktiebolaget, J. O., Wengstroms Mekaniska Snickerifabrik, Stockholm. Parquet floor and panel. 571
23. Almgren, J. R., Stockholm. Secrétaire and fire-side settle. 567
24. Atvidaberg Snickerifabrik, Atvidaberg. Oak parquet floors and panel. 571
25. Beckman, Axel, Norrköping. Furniture. 567
26. Berg, Edv., Stockholm. Painted ceiling. 571

27. Bodafors Stol och Mobelfabrik, Sandsjö. Furniture. 567
28. Brunsson, Johanna, Stockholm. Portieres and table cover. 568
29. Erikson Bros., Arvika. Wardrobe and covered writing table. 567
30. Gahne Hedda, Stockholm. Curtains and technics. 568
31. Goransson, Ellen, Ystrad. Scanian textile fabric. 568
32. Johansson, C. A., Wexio. Chest of drawers of antique design. 567
33. Johansson, Carl O., Stockholm. Furniture. 567
34. Kulle, Thora, Lund. Portieres, tapestries, etc., of Scanian textures and designs. 568
35. Lofgren, A. W., Örebro. Cabinet in renaissance style. 567
36. Lofmark, L. O., Stockholm. Cabinet, clock case, panels, etc. 572
37. Mattsson, A., Stockholm. Furniture. 572
38. Olsson, Cilluf, Kjöfings. Portieres, etc., of Scanian texture and design. 568
39. Scholander, Sv., Stockholm.
 - a Plaster mantel-piece. 570
 - b Stucco ceiling. 571
40. Scholdstrom, Otto, Stockholm. Furniture. 567
41. Schönow, C. L., & Co., Stockholm. Plaster-work and gilded door and panel. 670
42. Svensk Konstslöjd Utställning, Stockholm.
 - a Furniture in sixteenth century style. 657
 - b Portiers, etc. 568
43. Svenska Stådföreningen, Stockholm. Suites of furnished rooms, showing development of art industry. 572
44. Svensson, C. P., Stockholm. Book and clock cases; sofa. 572
45. Widen, C. O. F., Stockholm.
 - a Writing table. 566
 - b Church altar. 572

GROUP 91.

46. Bellio, Antonio, Stockholm. Table-top of mosaic work. 580
47. Ekstam, Josephine, Stockholm. Painted porcelain; pyrotypic ornamented objects. 577
48. Hoganäs Stenkolsbolag, The Sound.
 - a Brick and terra cotta articles. 574
 - b Pottery. 575
 - c Fancy articles. 576
49. Kardell, Maria, Stockholm. Porcelain vase. 577
50. Kohler, T. G., Borlänge. Bricks and ornamental tiles. 574
51. Minnesbergs Tegelbruks Aktiebolag, Minnesberg. Bricks and terra cotta ware. 574
52. Rörstrands Aktiebolag, Stockholm. Earthenware; porcelain, etc. 576

DEPARTMENT H.—MANUFACTURES.

53. Skromberga Stenkols & Lercindustri Aktiebolag, Ekeby. Tiles and bricks; ornaments; pipes and chimneys. 574
 54. Wallakra Stenkols Aktiebolag, Bille-sholm. Fire-bricks. 574

GROUP 92.

55. Gossaters Stenhuggeri Aktiebolag, Gossater. Mantel. 583
 56. Grafversfors Stenhuggeri och Sliperi, Grafversfors.
 a Granite monuments. 581
 b Granite ornaments. 582
 57. Lundberg, Th., Stockholm. Mantel decoration. 583
 58. Melkerssons, J. A., Porfyrverk, Orsa. Porphyry ornaments. 582

GROUP 93.

59. Beskow, Bernhard, Gothenburg. Buck-ler. 585
 60. Carlstein, P. A., Soderkoping. Brass lamp and bronze ornaments. 585
 61. Husgvarna Vapenfabriks Aktiebolag, Jönköping. Decorative arms. 585
 62. Norrstrom, C., Hj., Stockholm. Vases, bucklers and cabinets with steel etchings. 585
 63. Wiklund, W., Stockholm. Iron bracket lamps. 585

GROUP 94.

64. Reijmyre Bruks Aktiebolag, Reijmyre.
 a Glassware for chemists. 590
 b Table glassware. 592
 c Fancy glassware. 593

GROUP 96.

65. Aktiebolaget Universal-Svarfveriet, Stockholm. Carved umbrella and parasol handles. 598
 66. Aman, Emy, Linköping. Carved cab-inet. 598
 67. Dikman, August, Falun. Carved wood album. 598
 68. Düben, Hertha Louisa von, Stock-holm. Wood carving. 598
 69. Frisk, Elisabeth, Stockholm. Cabinet and easel with portfolio. 598
 70. Johnsson, Hanna, Stockholm. Carved chest, album and portfolio. 598
 71. Monthan, Maria, Stockholm. Carved chair and chest; carved wood articles. 598
 72. Netzel, Sigrid, Stockholm. Carved box. 598
 73. Reijmyre Bruks Aktiebolag, Reijmyre. Exhibition cups for museums. 602
 74. Söderberg, Euphemia, Stockholm. Carved box and portfolio. 608
 75. Svensk Konstslöjd Uttställning, Stock-holm. Carved articles. 598

GROUP 97.

76. Carlstein, P. A., Soderkoping. Silver toilet articles. 607
 77. Eriksson, Christian, Arvika. Silver cup and cane head. 607
 78. Green, C. E., Norregard. Fancy spoons and engraved articles. 607
 79. Guldsmedsaktiebolaget, Stockholm. Silver tableware. 605

80. Hallberg, C. G., Stockholm.
 a Copy of cup given to Gustavus Adolphus by Nuremberg Protestants. 604
 b Toilet set and cups; historical spoons. 607

81. Menkaw, Anna, Stockholm. Drinking cup and goblets of copper britannia metal. 608
 82. Mollenborg, Gustaf, Stockholm.
 a Gold and silver articles. 604
 b Silver tableware. 605
 83. Santesson, Fr. Abr., Stockholm. Candle-sticks, drinking-cups, goblets, etc., of pewter and britannia metal. 608

GROUP 98.

84. Carlman, C. F., Stockholm. Col-lections of stars of Royal Swedish Orders of Knighthood. 616
 85. Hallberg, C. G., Stockholm. Silver-gilt jewelry in Swedish national style. 616

GROUP 99.

86. Halda Tickurfabriks Aktiebolag, Svängsta. Watches and parts. Timing apparatus. 617
 87. Linderöth, G. W., Stockholm. Clocks and chronometers. 621

GROUP 100.

88. Aimgren, K. A., Stockholm. Up-holstery silk. 629
 89. Jonsson, Mrs. Hilma, Stockholm. Silk under-bodies. 630
 90. Lennings, John Vafskola, Norrkjöping. Upholstery silk; silk wall covering. 629

GROUP 102.

91. Askenstrom, Catharina, Svenstorp. Unbleached cloth. 638
 92. Brunsson, Johanna, Stockholm. Linen damask table cover. 639
 93. Engestrom, Nina v., Upsala. Table-cloths, napkins, towels, aprons and car-pet. 639
 94. Handarbetets Vanner, Stockholm. Counterpanes. 339
 95. Kulle, Thora, Lund. Cotton aprons. 638
 96. Olsson, Christina, Walla. Linen yarn. 639
 97. Olsson, Cilluf, Kjöfinge. Linen floor cloths. 639
 98. Sparre, Caroline, Westervik. Linen yarn. 639
 99. Sparre, Sophie, Westervik. Linen yarn. 639

GROUP 103.

100. Olsson, Cilluf, Kjöfinge.
 a Blankets. 642
 b Woolen carpet. 649
 101. Handarbetets Vanner, Stockholm.
 a Upholstery goods. 646
 b Carpets. 649
 102. Bengtsson, Karna, Ystad. Carpets, technics. 649
 103. Kulle, Thora, Lund. Woolen stuffs; woolen aprons. 641
 104. Lindegren, Annie, Stockholm. Car-pets and technics. 649

SWEDEN.

GROUP 104.

105. Husgvarna Vapenfabriks Aktiebolag, Jönköping. Sewing machines. 659

GROUP 105.

106. Ternlund, A., Stockholm. Bear's skin. 660
 107. Forssell's, D., Sons & Co., Stockholm.
 a Carriage covers, fur rugs, etc. 661
 b Fur garments. 662

GROUP 106.

108. André, Wilhelmina, Stockholm. Knitted coverlet. 665
 109. Askenstrom, Catharina, Svenstorp. Scanian pillow-lace. 664
 110. Fickerman, Lilli, Sköfde. Embroidered cushion and tablecloth. 665
 111. Handarbetets Vanner, Stockholm.
 a Embroideries. 665
 b Tapestries. 670
 112. Hebbe, Hulda, Stockholm. Artificial flowers. 666
 113. Möller, Sara, Stockholm. Knitted shawls. 665
 114. Nilsson, Emilie, Wermland. Linen towels; "shepherd girl's work." 665
 115. Nordenfalk, Elisabeth, Stockholm.
 a Imitation Venetian lace. 664
 b Imitation Venetian lace fans. 667
 116. Nordenfeldt, Maria, Gothenburg. Screen; silk embroidery. 669
 117. Nordgren, Johanna, Gefle. Knitted counterpanes. 665
 118. Norrman, Hilda, Gelfsborg. Hemstitched sheets. 665
 119. Osterholm, A., Norrköping. Vadstena and pillow-lace. 664
 120. Risling, Maria, Nassjo. Lace border for handkerchief. 664
 121. Rönstrom, Hilda, Lund. Embroideries. 665
 122. Rudbeck, Hildur, Upsala. Hearth cushion. 669
 123. Stange, Elisabeth, Stockholm. Guipure workcloth. 665
 124. Svensk Konstslöjd Utställning, Stockholm. Embroidery, Lapp-costume, wall hangings, table covers, cushions. 669
 125. Uhlin, Ebba, Wadstena. Thread buttons. 668

GROUP 110.

126. Ekstam, Josephine, Stockholm. Fancy articles of wood and leather. 695
 127. Kroeplien, Emma, Stockholm. Dolls in national costumes. 693
 128. Santesson, Fr. Abr., Stockholm. Toys. 693

GROUP 111.

129. Lindberg, Lydia, Stockholm. Embossed leather for chairs. 705
 130. Nordquist, Marianne, Stockholm. Embossed leather album. 705
 131. Wrede, Hilda, & Agathe, Wexio. Embossed and gilt leather covering for chair. 705

GROUP 113.

132. Aktiebolaget Bofors Gullspang, Bofors. Ingots and shot for cannon; war materials. 716
 133. Aktiebolaget Finspongs Styckebruk, Skonnarbo. Mounted cannon and shot. 716
 134. Fagersta Bruks Aktiebolag, Westanfors. Gun barrels. 714
 135. Husgvarna Vapenfabriks Aktiebolag, Jönköping.
 a Military small arms. 714
 b Hunting carbines and guns. 718
 136. Jernkontarets Kollektivutställning, Stockholm.
 a Military small arms. 714
 b Heavy ordnance. 716
 137. Svalling & Co., Mölntorp. Cut and thrust weapons. 717

GROUP 114.

138. Meyer, Otto, & Co., Stockholm. Candlabra of gilt bronze, and electrolier. 722

GROUP 115.

139. Svensson, J. V., Stockholm. Oil cooking range and soldering heater. 729
 140. Wiman, E. A., Stockholm.
 a Gas stove. 728
 b Petroleum stove. 729

GROUP 117.

141. Aktiebolaget Finspongs Styckebruk, Skonnarbo. Wire netting and wire cloth. 735
 142. Jernkontarets Kollektivutställning, Stockholm. Wire cloth. 735

GROUP 118.

143. Aktiebolaget Finspongs Styckebruk, Skonnarbo. Horse shoes. 746
 144. Degerfors Jernverk, Degerfors. Articles of sheet iron. 744
 145. Jernkontarets Kollektivutställning, Stockholm. Horse shoes and crude forgings. 746
 146. Surahammars Bruk, Aktiebolag. Bowls of pressed steel plates for milk separators, etc. 746

GROUP 119.

147. Aktiebolaget Finspongs Styckebruk, Skonnarbo.
 a Nails, tacks, etc. 747
 b Axes and implements for lumber industry. 748
 c Tools for working stone. 749
 d Files. 750
 e Sledges. 752
 148. Aktiebolaget Osterby Bruk, Osterby. Blanks for machines and tools. 752
 149. Berg, E. A., Eskilstuna. Razors, etc. 751
 150. Dahlgren, Carl W., Eskilstuna. Scissors, razors and case knives; skates. 751
 151. Engstrom, Joh., Eskilstuna. Razors and knives. 751
 152. Eskilstuna Jernmanufaktur Aktiebolag, Eskilstuna. Table cutlery and shears. 751
 153. Fagersta Bruks Aktiebolag, Westanfors. Sledges, springs and tools. 752

DEPARTMENT H.—MANUFACTURES.

- | | |
|--|--|
| 154. Forsbacka Jernverks Aktiebolag, Forsbacka. Tools. 752 | 167. Soderfors Bruks Aktiebolag, Soderfors. 750 |
| 155. Hallstroms Hadar Kniffabriks Aktiebolag, Eskilstuna. Pocket knives. 751 | <i>a</i> Files. 750 |
| 156. Hadengran & Son, Eskilstuna. Pocket knives. 751 | <i>b</i> Tools. 752 |
| 157. Halling, A., Eskilstuna. Daggers and knives. 751 | 168. Sorensen, N. G., Stockholm. Locks and door handles. 747 |
| 158. Heljestrand, C. V., Eskilstuna. Razors. 751 | 169. Stenman, Aug., Eskilstuna. Builders' hardware. 747 |
| 159. Hults Bruk, Aby. Axes. 748 | 170. Stora Kopparbergs Bergslags Aktiebolag, Falun. 747 |
| 160. Jernkontarets Kollektivutställning, Stockholm. 749 | <i>a</i> Horse shoe nails. 747 |
| <i>a</i> Builders' hardware. 747 | <i>b</i> Tools. 752 |
| <i>b</i> Axes, adzes, etc. 748 | 171. Stridsberg & Biorck, Trollhattan. 749 |
| <i>c</i> Edge tools of various descriptions. 749 | <i>a</i> Machine and plane knives. 749 |
| 161. Jonsson, A. J., Eskilstuna. Pocket knives. 751 | <i>b</i> Saws and files. 750 |
| 162. Liljequist, P., Eskilstuna. 750 | 172. Uddeholms Aktiebolag, Uddeholm. 747 |
| <i>a</i> Blades for planing machines. 749 | <i>a</i> Screws, wire nails, steel springs, horse shoe nails, etc. 747 |
| <i>b</i> Saws. 750 | <i>b</i> Sledges, hammers, locksmiths' anvils, etc. 752 |
| 163. Lindstrom, E. F., Eskilstuna. Tongs. 752 | |
| 164. Nöesman, E. A., Eskilstuna. Locks and door handles. 747 | |
| 165. Oberg, C. O., & Co., Eskilstuna. Files and rasps. 759 | |
| 166. Sandvikens Kernverke Aktiebolag, Sandviken. 750 | |
| <i>a</i> Band saws and uncut bands 750 | |
| <i>b</i> Anvils. 752 | |

GROUP 120.

- | |
|--|
| 173. Hoganas Stenkolsbolag, Skone. Pipes, tubes and troughs. 754 |
| 174. Skromberga Stenkols Aktiebolag, Ekeby. Sewer pipes. 754 |

GROUP 121.

- | |
|---|
| 175. Strindberg, A. G., Stockholm. Flags with flag-staffs and acorns. 754 |
| 176. Liljeblad, A. G., Stockholm. Painted escutcheons for decoration. 754 |

SWITZERLAND.

GROUP 87.

- | |
|--|
| 1. Andrea, Ph., Berne. Pharmaceutical products. 547 |
| 2. Society of Chemical Industry, Basle. Chemicals. 546 |

GROUP 94.

- | |
|---|
| 3. Falconnier L., Ryon. Glass-bricks for building purposes. 591 |
|---|

GROUP 95.

- | |
|---|
| 4. Kreuzer, Ad., Zurich. Stained-glass windows. 596 |
|---|

GROUP 96.

- | |
|--|
| 5. Althaus & Cie, Meiringen. Wood carvings. 598 |
| 6. Abegglen-Seiler, Iseltwald. Wood carvings. 598 |
| 7. Abplanalp, Joh, Brienz, Wood carvings. 598 |
| 8. Abplanalp, Jakob, Brienz. Wood-carvings. 598 |
| 9. Amacher, Peter, Brienzwyler. Wood carvings. 598 |
| 10. Baumann, Andreas, Brienz. Wood carvings. 598 |
| 11. Binder, Ed., & Co., Brienz. Wood carvings. 598 |
| 12. Ecole de Sculpture, Brienz. Wood carvings. 598 |
| 13. Flück, Peter, Hofstetten. Wood carvings. 598 |
| 13a. Flück, Peter, Schevanden. Wood carvings. 598 |

- | |
|--|
| 14. Fuchs, Caspar, Brienz. Wood carvings. 598 |
| 15. Fuchs, Peter, Brienz. Wood carvings. 598 |
| 16. Gander-Ludi, Brienz. Wood carvings. 598 |
| 17. Gertsch, Joh, Hofstetten. Wood carvings. 598 |
| 18. Grossman, A., Interlaken. Wood carvings. 598 |
| 19. Huggler-Jager, Brienz. Wood carvings. 598 |
| 20. Huggler, Joh., Brienz. Wood carvings. 598 |
| 21. Hunziker, Jak., Brienz. Wood carvings. 598 |
| 22. Knittel, Otto, Meiringen. Wood carvings. 598 |
| 23. Kehrli, Joh., Mühlestalden. Wood carvings. 598 |
| 24. Kehrli-Michel, Bönigen. Wood carvings. 598 |
| 25. Michel, Christian, Ringgenberg. Wood carvings. 598 |
| 26. Michel-Grossman, Brienz. Wood carvings. 598 |
| 27. Michel, Peter, Bönigen. Wood carvings. 598 |
| 28. Michel-Wütrich, Brienz. Wood carvings. 598 |
| 29. Müller, Karl, Hofstetten. Wood carvings. 598 |
| 30. Rachelli, Bönigen. Wood carvings. 598 |

SWITZERLAND.

31. Roggero, Ernst, Brienz. Wood carvings. 598
32. Ruof, Peter, Brienz. Wood carvings. 598
33. Schild, Gebrüder, Hofstetten. Wood carvings. 598
34. Schmidiger, Joseph, Brienz. Wood carvings. 598
35. Schmidiger, Anton, Brienz. Wood carvings. 598
36. Schneider, Joh, Brienz. Wood carvings. 598
37. Schwalb, Brienz. Wood carvings. 598
38. Simon, Christoff, Brienz. Wood carvings. 598
39. Société pour l'Industrie de la Sculpture, Brienz. Wood carvings. 598
40. Stahli, Kaspar, Brienz. Wood carvings. 598
41. Wick, Jak., Brienz. Wood carvings. 598
42. Zumbrunn, Chr., Ringgenberg. Wood carvings. 598
43. Zumbrunn, Peter, Ringgenberg. Wood carvings. 598
- GROUP 98.**
44. Chopard, Adhémard, Bienne. Jewelry. 612
45. Ferrero, J., Geneva. Jewelry. 612
46. Glatou, A., Geneva. Jewelry. 612
- GROUP 99.**
47. Bachmann, L., Geneva. Watches. 617
48. Bähni & Cie, Bienne. Hair Springs. 618
49. Baume, Alcide, Les Bois. Watches. 617
50. Borel & Courvoisier, Neuchatel. Watches. 617
51. Borgel, F., Geneva. Watches. 617
52. Borloz & Noguét-Borloz, Vallorbes. Files. 620
53. Boulanger, Maillard & Cie, Geneva. Watch dials. 618
54. Chatelain, Fritz, Neuchatel. Watches. 617
55. Clémence-Beurret, Eugène, La Chaux-de-Fonds. Watches. 617
56. Couleru-Meuri, Ch., La Chaux-de-Fonds. Watches. 617
57. Dégallier, C., Geneva. Watches. 617
- 57a. Dedesheim, Alb. & freres, St. Imier. Watches. 617
58. Ditisheim, Maurice, La Chaux-de-Fonds. Watches. 617
59. Droz-Jeannot fils, Les Brenets. Watches. 617
60. Droz & Cie, St. Imier. Watches. 617
61. Dufaux, Ch., Geneva. Hair Springs. 618
62. Francillon, Ernest, & Cie, St. Imier. Watches. 617
- 62a. Gendrat-De la Chaux, La Chaux-de-Fonds. Watches. 617
63. Golay-Leresche, A., & fils, Geneva. Watches. 617
64. Graizely, Arthur, La Ferrière. Watches. 617
65. Grobet, frères, Vallorbes. Files. 620
66. Guye, P., & Cie, Geneva. Hair springs. 618
67. Herzog, A., Geneva. Mainsprings. 618
68. Jacoby & Cie, Geneva. Watches. 617
69. Jeanneret, Alb., & frères, St. Imier. Watches. 619
70. Jeanneret, G., & E. Kocher, La Chaux-de-Fonds. Watches. 617
71. Jürgensen, J. Alfred, Le Locle. Watches. 617
72. Junod, L. E., Lucens. Jewel holes stones. 618
73. Klingelfuss, Fr., Basel. Watches. 617
74. Lecoultre, Marius, Geneva. Watches. 617
75. Leisenheimer frères, C. & E., Geneva. Mainsprings. 618
76. Matthey-Doret, Paul, Le Locle. Watches. 617
77. Milliet, C. A., Geneva. Mainsprings. 618
78. Monnier & Frey, Bienne. Watches. 617
79. Moré & Méroz, Geneva. Watch dials. 618
80. Nardin, Paul D., Le Locle. Watches. 617
81. Parleiry, Eugène, Geneva. Watch oil. 618
82. Patek, Philippe, & Cie, Geneva. Watches. 617
83. Perret, Ulysse, Renan. Mainsprings. 618
84. Perrenoud, Z., & fils, La Chaux-de-Fonds. Watches. 617
85. Piguet, Guillaume & Cie, Le Sentier. Watches. 617
86. Redard, H., & fils, Geneva. Watches. 617
87. Richardet, frères, La Chaux-de-Fonds. Watch-hands. 617
88. Rozat, Louis, La Chaux-de-Fonds. Watches. 617
89. Sagne, Fréd. Julian, La Neuveville. Watches. 617
90. Schweingruber, Chr., St. Imier. Mainsprings. 618
91. Servet, J. Marc, Geneva. Files. 620
92. Tschumi, fils, Geneva. Brushes. 620
93. Vautier & fils, Geneva. Files. 620
94. Wagon frères, Geneva. Watch-hands. 618
95. Weill & Cie, La Chaux-de-Fonds. Watches. 617
96. Wirth, E., Geneva. Watches. 617
97. Wuilleumier frères, Renan. Watches. 617
98. Wyss, J., fils, La-Chaux-de-Fonds. Dials and enameled articles. 618
99. Zentler frères, Geneva. Watches. 617
- GROUP 108.**
100. Wuetrich, E., Lyss. Pipes. 680
- GROUP 117.**
101. Schindler-Escher, C., Zurich. Bolt-ing cloth for flour mills. 738
- GROUP 119.**
102. Grobet frères, Vallorbes. Files. 750



SIX REASONS

Why the W. & S. B.★ Chains are better than others.

1. They have been assayed by the Ohio Retail Jewelers' Association and proved to contain more gold than those of other makes.
2. We are originators, not imitators, hence our exclusive styles.
3. We are the pioneer manufacturers of Rolled Plate Chains, organized in 1870, our motto always being to EXCEL.
4. Our trade mark, W. & S. B.★ stamped on the swivel, is a guarantee to the purchaser that the chain is made "ON HONOR."
5. Our energies are devoted exclusively to Chains, which enables us to produce an article superior to all others.
6. There's only one World's Fair, and only one W. & S. B.★ brand of Rolled Plate Chains. Take no other.

Ask your Jeweler for the W. & S. B.★ Chains, and see that the trade mark, W. & S. B.★ is stamped on the swivel. We are the originators of this method, all statements to the contrary notwithstanding.



No. 4.



SECOND QUALITY.

No. 4.



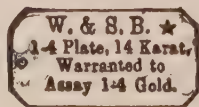
SECOND QUALITY.

No. 3.



REGULAR QUALITY.

No. 1.



SUPERFINE QUALITY.

338

No. 2.



EXTRA FINE QUALITY.

LEADERS ALWAYS.



FOSTER & BAILEY

60 RICHMOND STREET,

PROVIDENCE, R. I., U. S. A.

We are the largest manufacturers of Solid Gold and Rolled Gold Plate jewelry in the country. Our exhibit is among the gems of the World's Fair. Fail not to visit it.

We manufacture some very nice things in Solid Gold Locketts, and also some goods in solid silver, but our principal lines are of heavy rolled gold plate, made to wear for years, and the quality is backed by twenty years' experience in making this class of goods.

Our Trade Mark, a Flag with F. & B. in the center, or simply the letters F. & B., is on all cards and tags attached to our goods.

GOLD LOCKETS SET WITH DIAMONDS.

These Locketts are made of ten karat gold throughout and set with brilliant diamonds. They can not be surpassed in finish or cheapness of price.

GOLD LOCKETS ENGRAVED.

These Locketts are also made of ten karat gold throughout, with beautiful designs engraved thereon, and the price is so low that they can not fail to be in great demand.

ROLLED PLATE LOCKETS.

This line is almost endless and consists of nearly every conceivable shape, size and style. Some are set with imitation diamonds, rubies and sapphires.

GOLD FRONT LOCKETS.

This line is very extensive. Many patterns are plain polished; others nicely engraved, with and without stones.

WATCH CHAINS FOR GENTLEMEN.

These goods are of fine quality and guaranteed to give satisfaction. Some recently added have sold far beyond our expectation. They are made of heavy rolled plate in all sizes and patterns.

WATCH CHAINS FOR LADIES.

Our Victoria and Princess Chains are neat and pretty. They are made in all bright, Roman and bright, platinum and bright gold, and have one or two charms.

HAIR CHAIN MOUNTINGS.

In solid gold and rolled plate. We are headquarters and make everything desirable in this line.

"MT. HOPE" BUTTONS.

These are superior to any button in the world. They are easy to put in and easy to take out of the cuff.

LINK BUTTONS.

This line has increased rapidly with us and is very low in price, embracing all styles in Roman and polished, chased, engraved and plain, with and without stones, and some in enamel.

GLOVE BUTTONERS.

We make the interlocking and one with a twist handle in gold, rolled plate and silver rolled plate.

NECK CHAINS.

We make a variety of Rope Neck Chains in bright and Roman, with snaps.

BRACELETS.

We make a large stock of Curb Bracelets in five sizes, besides the graduated links, with padlocks and snaps, in chased and plain polished, Roman, rolled silver plate and solid silver. Also padlocks with keys and a push snap.

EARRINGS.

This line includes many pretty patterns in gold fronts engraved, some with pretty trimmings, and a small line of Hoop Drops.

CROSSES.

We make four sizes of gold filled, in plain, engraved and set with stones, and suitable for our neck chains.

CHARMS.

This line is adapted to ladies' or gentlemen's chains, and includes a number of Heart Charms in Roman, bright and satin finish, with stones and without.

PINS.

Our large line of Lace and Cuff Pins comprises many desirable patterns in gold fronts, engraved and trimmed. Also includes Baby Pins and Scarf Pins.

Be sure and see our Exhibit in Manufactures and Liberal Arts Building, Section H, Group 98.

Haviland China

IS MARKED

ON WHITE WARE

H&C^o
L
FRANCE

ON DECORATED WARE

Haviland & Co
Limoges

IMPORTED BY PRINCIPAL CHINA DEALERS.

TRADE MARK.



WHITE STAMP.

ESTABLISHED 1853

M. REDON

TRADE MARK.



DECOR. STAMP.

PORCELAIN MANUFACTURER

LIMOGES, FRANCE.

Agents for United States and Canada

CHARLES AHRENFELDT & SON,

50, 52 AND 54 MURRAY ST.,

NEW YORK.

The Century Clock

In Manufactures Building, Section O, Block 1.
Eighty feet east of Columbia Avenue.

Most Wonderful on Earth
“See it.”

Twenty feet high, with one hundred life-like, moving figures re-enacting the great scenes of American progress. The finest wood-carving in the world. Most perfect and beautiful of the World's famous clocks.

BUILT TO SIGNALIZE THE CROWNING ACHIEVEMENT OF
AMERICAN WATCH-MAKING,

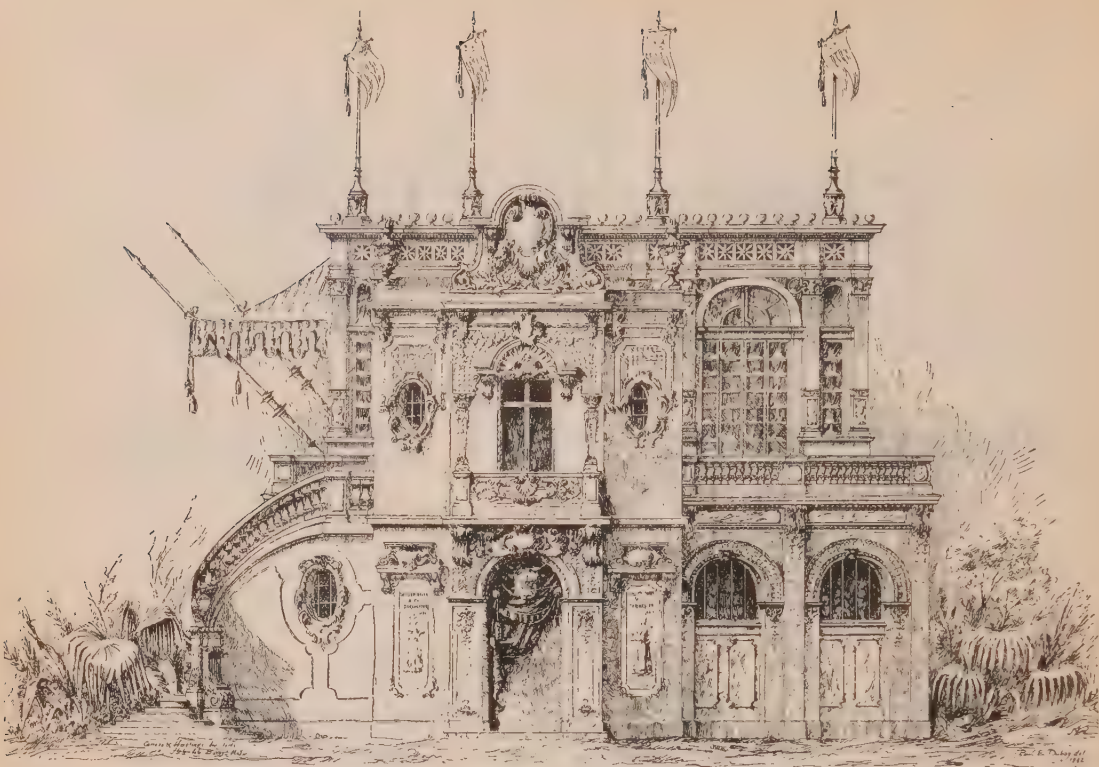
**A high-class watch
for all the people:**

The Quick-Winding Waterbury

Winds in 5 seconds.

An accurate time-keeper in genuine and elegant cases of filled gold, coin silver, etc. In various styles and sizes for every taste: \$4 to \$15. Sold by Jewelers everywhere, and made by

**The Waterbury Watch Co.,
Waterbury, Conn.**



WALTER BAKER & CO.'S
Cocoa and Chocolate Pavilion

WORLD'S COLUMBIAN EXPOSITION.

CARRERE & HASTINGS, ARCHITECTS, NEW YORK.

WALTER BAKER & CO.'S manufacturing establishment at DORCHESTER, MASS., is not only the oldest, but the largest of its kind on this continent. Their products form the standard for purity and excellence.



VERMONT STATE BUILDING

CAST-STEEL WORKS

... OF ...

FRIED KRUPP

ESSEN, GERMANY.

AMERICAN OFFICE: 15 GOLD STREET, NEW YORK.
P. O. Box 2878.

REPRESENTED BY THOMAS PROSSER & SON.

THESE works cover an area of 1,200 acres, employ about 25,000 men, have the most improved plant, and stand unique, from the fact that they have their own Ore and Coal Mines, Blast Furnaces, etc., and that EVERY stage of manufacture is under their own Supervision, and are not (like others) dependent upon the open market for a miscellaneous assortment of crude material, which in connection with 75 years' experience, enables them to turn out a product of a very superior quality, second to none; and at the same time the different grades of Steel are always of the SAME UNIFORM quality.

Locomotive Tires, Steel Tired Wheels, Axles,

Crank Pins, Shafts and Steel Forgings up to 70 Tons.

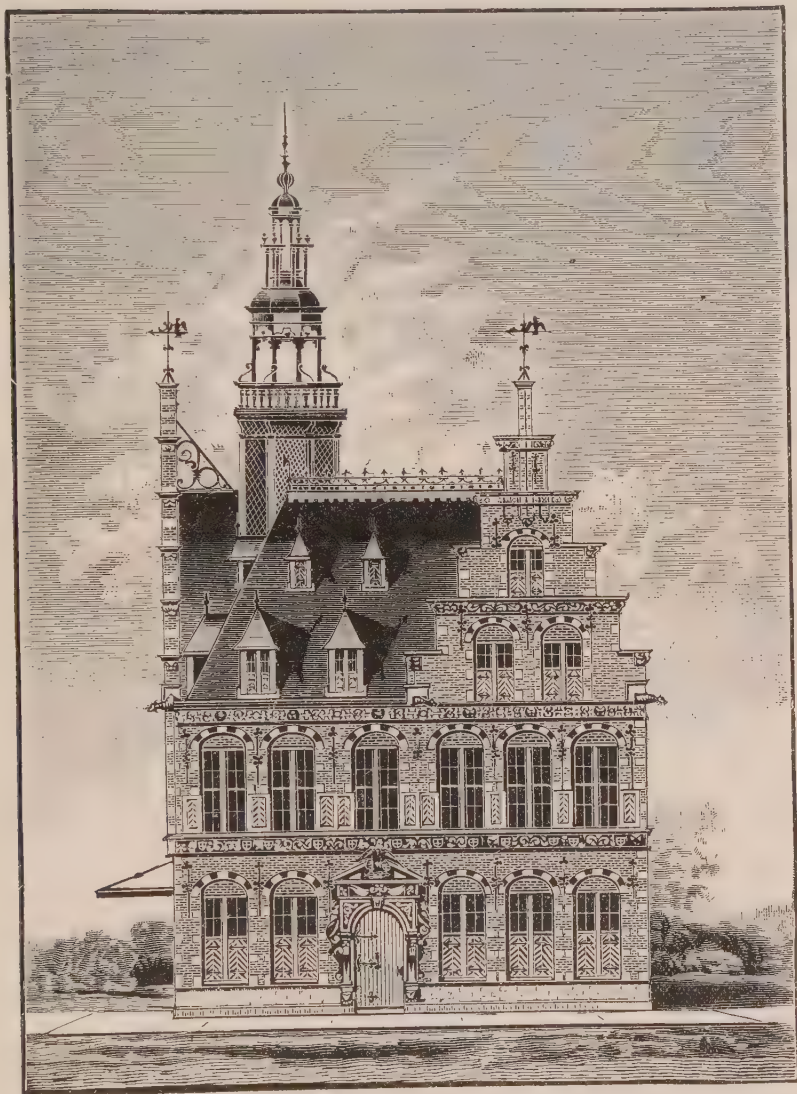
Steel of every description, Forged, Rolled, etc., into any
form or article desired.

Please do not fail to visit the Krupp Pavilion in the Exposition Grounds, located on the Lake Shore at the south end of park, adjoining the Convent of La Rabida and in close proximity to the Shoe and Leather and Forestry buildings, and see the 120-ton Krupp Gun and many other objects of interest to all.

VAN HOUTEN'S

COCOA

BEST AND GOES FARTHEST.



N. E. CORNER MANUFACTURES AND LIBERAL ARTS BUILDING.

LAKE FRONT.

VISITORS ARE CORDIALLY INVITED TO COME AND SEE US.



BADISCHE ANILIN AND SODA FABRIC

LUDWIGSHAFEN a/ RHEIN, GERMANY.

MANUFACTURERS OF

ALIZARINE COLORS, ANILINE COLORS, COALTAR DYES
OF ALL KINDS, FOR DYEING

WOOL.COTTON.SILK.PAPER.LEATHER

THE LARGEST CHEMICAL MANUFACTURERS IN THE WORLD

Area, covered by Works	185 acres
Buildings—all Stone and Brick	315
Dwellings—for Employees	420
Railroad Tracks through Works	15 miles
Employees—Chemists	78
“ —Engineers	24
“ —Office	180
“ —Workmen	4,000
Annual Consumption of Coal	250,000 tons

EXCLUSIVE REPRESENTATIVES FOR THE U. S.

WM. PICKHARDT & KUTTROFF

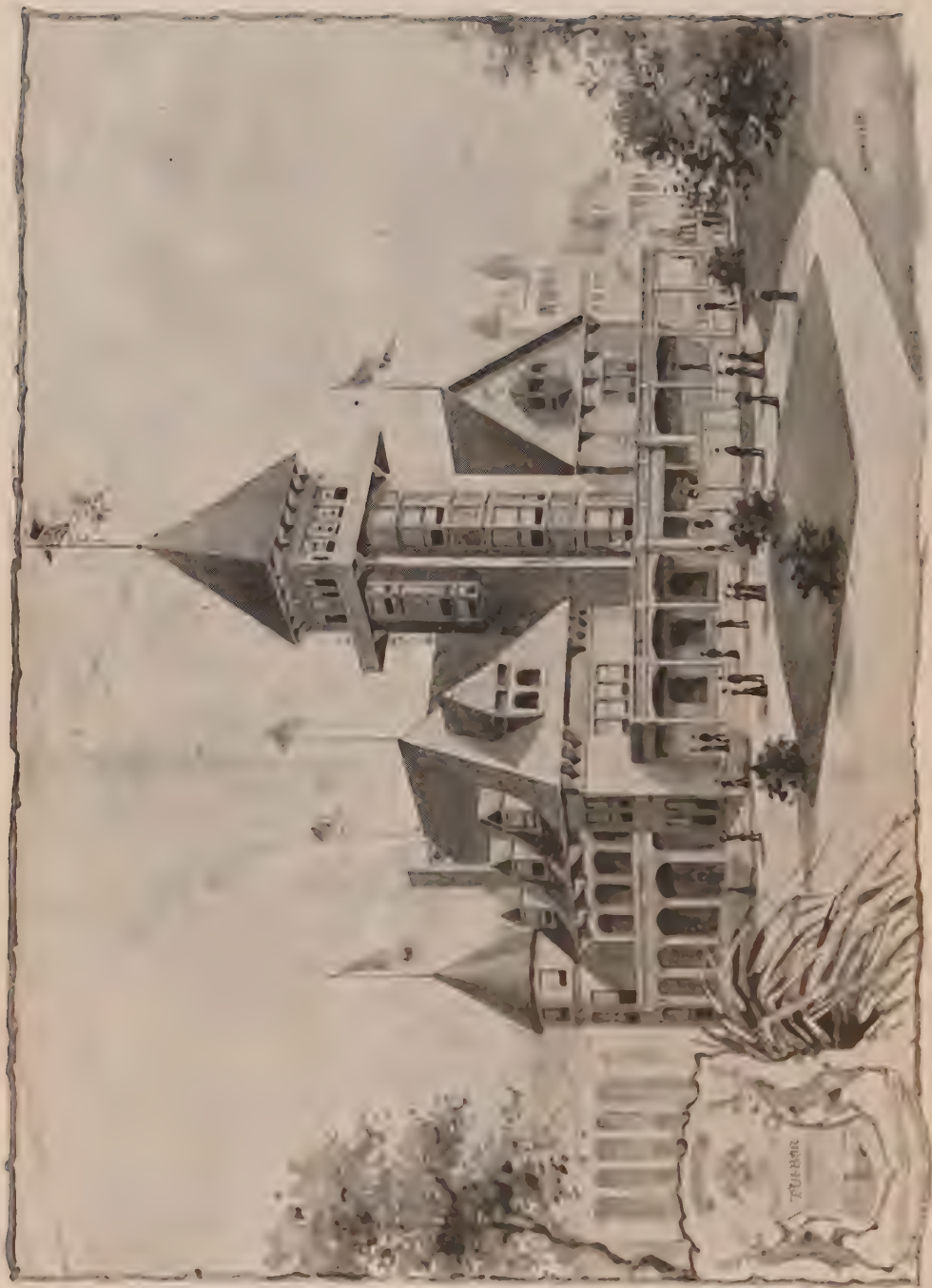
*NEW YORK	98 Liberty Street
*BOSTON	36 Hamilton “
*PROVIDENCE	32 So. Water “
*PHILADELPHIA	30 No. Front “
*CHICAGO	209 Michigan “

*Long Distance Telephone.

SEE OUR EXHIBIT IN THE MANUFACTURES AND LIBERAL ARTS BUILDING,
DEPARTMENT H, GROUP 113, CLASS 714. LOCATION,
SECTION Q, BLOCK 3, SOUTH.



SPECIAL ATTENTION GIVEN TO THE EXECUTION OF
GOVERNMENT CONTRACTS.



MICHIGAN STATE BUILDING.

THE J. H. BISHOP CO.

MANUFACTURERS
... OF ...

Skin Rugs, Sleigh Robes, Fur Coats



COACHMEN'S CAPES



All Skins are imported, dressed, dyed and manufactured by ourselves. Our facilities are unsurpassed and our technical skill without a superior in any part of the world.

We make a specialty of fine goods for the best trade. Animal Skins, from Royal Bengal Tigers and Polar Bears down to the common Red Fox. Sheepskin, Angora and Fur Rugs in all shades of colors and combinations. The celebrated "Bishop Sleigh Robes and Fur Overcoats" in countless variety. Coachmen's Capes in all qualities. Fancy dyeing for the Cloak and Fur Trade.

WORKS AND HEAD OFFICE:

WYANDOTTE, MICHIGAN, U. S. A.

Branch House, 81 White St., NEW YORK.

The India Rubber Comb Co.

AND . . .

The Goodyear Hard Rubber Co.

9, 11 AND 13 MERCER STREET, NEW YORK.

✻ ESTABLISHED 1851 ✻

MANUFACTURERS OF * * * * *

HARD RUBBER GOODS

OF EVERY DESCRIPTION FOR ELECTRICAL
PURPOSES, INCLUDING

CELLS, SHEET, TUBING,
SEPARATORS, ROD, INSULATORS.

SOLE AGENTS FOR THE PRODUCT OF

The Chicago Electric Wire Co.

WILMINGTON, DELAWARE.



The insulating qualities of this wire are superior to any other, and are recommended by the highest authorities in the world. : : :

PRICES AND SAMPLES ON APPLICATION

CORRESPONDENCE SOLICITED.

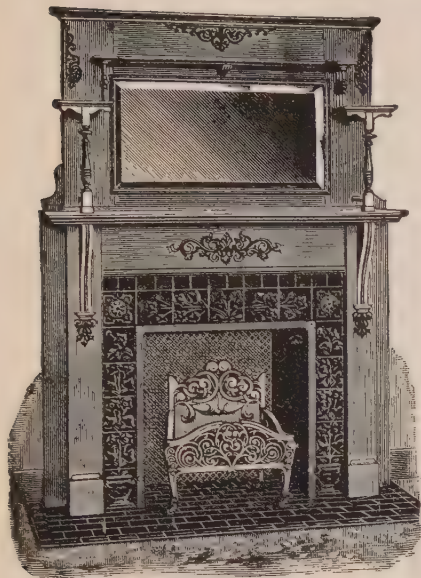
EHMAN & SIMON MFG. CO.



FACTORY, Elizabeth and Fulton Sts.
WAREROOMS C, 307 & 309 Wabash Ave.



CHICAGO, ILL.



WOOD MANTELS

100 DIFFERENT DESIGNS.

FINE INTERIOR FINISH FOR
RESIDENCES,
BANKS & PUBLIC BUILDINGS.

ESTIMATES AND DESIGNS FURNISHED FOR ALL
KINDS OF SPECIAL FURNITURE.

MAIN OFFICE AND WORKS:

NOS. 53, 55 AND 57 N. J. R. R. AVE.,
NEWARK, N. J.

SALESROOM:

NO. 634 BROADWAY,
NEW YORK.

JOY & SELIGER CO.

... MAKERS OF ...

Aluminum, White Metal Goods and Silver-Plated Toilet Articles.

COMBINATION MANIGURE AND SHAVING CASES,

WORK BOXES, MIRRORS.

Makers of Patented Elastic Metal Bolts, Photograph Frames, Ink Stands,
Clocks and Novelties.

CHICAGO SALESROOM:

NOS. 133 AND 135 WABASH AVE.



TORONTO SALESROOM:

NO. 13 WELLINGTON ST., E.

S. W. HALL

MANUFACTURER OF

OVER-GAITERS *and* LEGGINS

FOR LADIES, GENTLEMEN AND CHILDREN.

WHOLESALE AND TO ORDER.

155 STATE STREET,
CHICAGO.



EXHIBIT, SHOE AND LEATHER BUILDING, WORLD'S FAIR GROUNDS.

❖ THE QUEEN CITY ❖
PRINTING INK COMPANY.

CINCINNATI, OHIO.

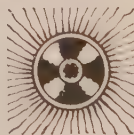
MAKERS OF...

BLACK AND COLORED
PRINTING

❖ INKS ❖

THAT ARE

❖ THE ❖
BEST!



CHICAGO OFFICE :

347 DEARBORN STREET.

UNITED CHEMICAL INDUSTRIES OF GERMANY

FOR THE
WORLD'S COLUMBIAN EXPOSITION
IN CHICAGO, 1893.

THE Department of the United Chemical Industries of Germany covers an area of about 10,000 square feet in the German Section in the Manufactures Building. Seventy-two exhibitors are represented in this Department, among which the most important firms of the different branches of the Chemical Industry of Germany will be found.

A special Catalogue for this Department has been issued, in which the different chemical preparations on exhibit are divided into seven groups according to their specific nature. This special Catalogue is on sale at the Department of the United Chemical Industries of Germany. Price 25 cts.

Business Cards, Price Lists and Descriptive Pamphlets will be distributed gratuitously on application in the pavilion of the aforesaid exhibition.

For information apply to the General Representative, Mr. Richard F. Fischer, in this department, respectively to the Agents of the different firms.

Committee of the United Chemical Industries of Germany,

FOR THE WORLD'S COLUMBIAN EXPOSITION IN CHICAGO, 1893.

THE PRESIDENT, DR. J. F. HOLTZ,

DIRECTOR OF THE CHEMISCHE FABRIK AUF ACTIEN

(VORM. E. SCHERING), BERLIN-N.

❖ CHEMISCHE FABRIK AUF ACTIEN. ❖
(VORM. E. SCHERING.)



BERLIN, N.



THE works were founded by E. Schering in 1854. The present managers are Messrs. J. F. HOLTZ, H. FINZELBERG and W. DITTMAR. The number of chemists and clerks engaged in the works is 60, that of the workmen 450. There are 14 boilers representing 1,380 horse-power in the factory and 26 steam engines combining 375 horse-power.

The products of the factory are chemical preparations for pharmaceutical, photographic and technical purposes, of which the most important are exhibited in the Chemical Department of the German Section in the Manufactures Building.

The original packages bear the following trade-mark:

Representatives for the United States and Canada:

Messrs. SCHERING & GLATZ, 55 Maiden Lane, NEW YORK.



REGISTERED.

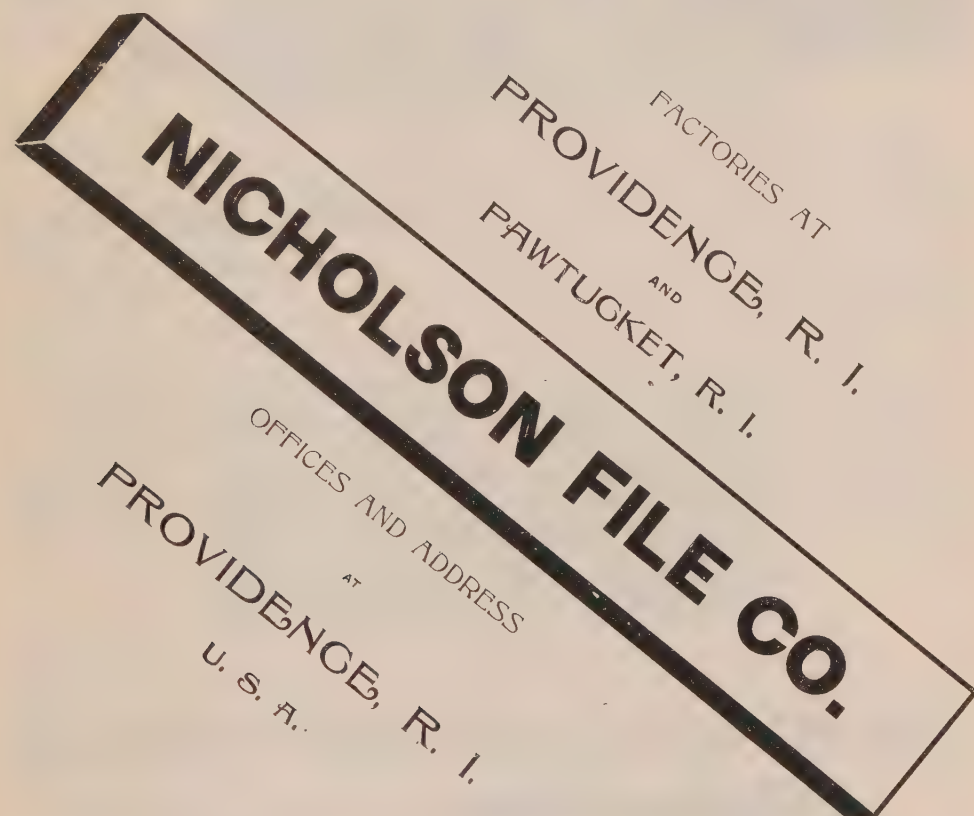


CALIFORNIA STATE BUILDING.

❖ INCREMENT CUT ❖

FILES AND RASPS

...For Every Description of Work...



ALSO

EXTRA [X F] FINE

FOR JEWELERS, WATCHMAKERS, SILVERSMITHS, ETC

FILERS' TOOLS AND SPECIALTIES.

The Largest File Works in the world.

Production over 3,000 dozen per day.



REMINGTON

TYPEWRITER

"The Remington Standard Typewriter is the official writing machine of the World's Columbian Exposition."

W. W. Loring President.

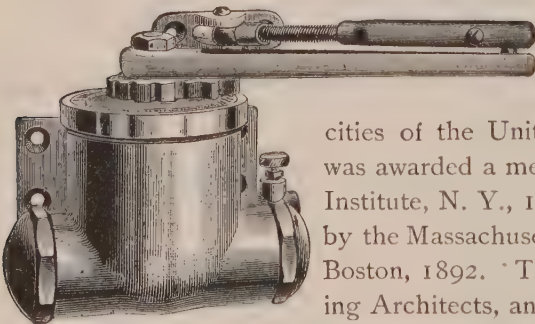
SEND FOR
ILLUSTRATED DESCRIPTION.

WYCKOFF, SEAMANS & BENEDICT

327 BROADWAY, NEW YORK.

175 MONROE ST., CHICAGO.

The Blount Door Check AND Spring



is acknowledged to be the best on the market. There are many thousands in use in all the principal cities of the United States and other countries. It was awarded a medal of superiority by the American Institute, N. Y., 1890-1891-1892, and a Silver Medal by the Massachusetts Charitable Mechanic Association, Boston, 1892. They are recommended by the leading Architects, and once tried are always used. See exhibit in Manufactures Building, Section P, Block 3, No. 21. Also the BLOUNT AUTOMATIC SASH LOCK, STANDARD DOOR STOP or HOLDER, and WILLIAMS FOLDING FEED BASKET

**Blount Manufacturing Co.,
Boston, Mass., U. S. A.**

WM. E. RICE,
President.

CHAS. F. WASHBURN,
Vice-President and Secretary.

P. W. MOEN,
Treas. and Gen. Manager.

WASHBURN & MOEN MFG. CO.

North Works,



Worcester,
Mass.

Makers of **IRON, STEEL AND COPPER,** and Manufacturers of

IRON, STEEL AND COPPER WIRE, FOR ALL PURPOSES.

Market and Stone Wire, Pump Chain and Steel Wire Bale Ties; Watch, Clock and Eyeglass Springs.
Atlas Bicycle Wire and Spokes.

❖ Sole Makers and Patentees of the **WAUKEGAN STEEL BARBED FENCE WIRE.** ❖

South Works,



Worcester,
Mass.

WIRE ROPE AND CABLE OF EVERY DESCRIPTION.

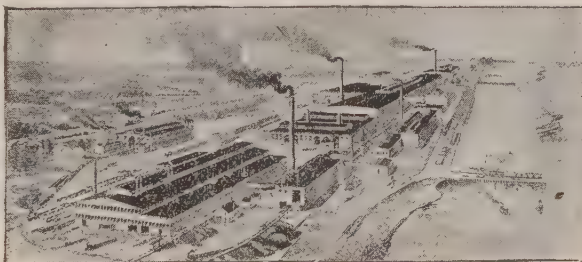
STEEL CABLES FOR SUSPENSION BRIDGES AND STREET RAILWAYS.

Transmission, Hoisting and Switch Ropes, Galvanized Ship Rigging,
Tiller Ropes, Sash Cords, Wire Clothes Line, etc.

EVERY VARIETY OF
BARE AND INSULATED COPPER WIRE
FOR ELECTRICAL PURPOSES.

OIL TEMPERED AND
SPIRAL WIRE SPRINGS,
FURNITURE AND MACHINERY SPRINGS.

Waukegan
Works,



Waukegan,
Illinois.

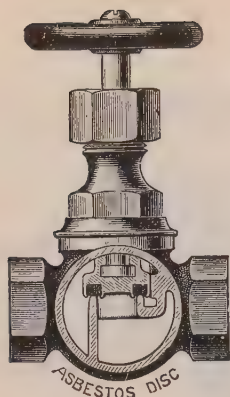
❖ **Offices and Warehouses :** ❖

NEW YORK, N. Y.
CHICAGO, ILL.

SAN FRANCISCO, CAL.
SACRAMENTO, CAL.

HOUSTON, TEX.
PHILADELPHIA, PA.

PITTSBURG, PA.
SCRANTON, PA.

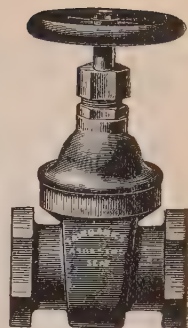


WESTERN VALVE CO.

166 LAKE STREET,

CHICAGO, ILLINOIS.

Asbestos Disc Globe, Angle and Radiator Valves, Renewable Asbestos Seat Gate Valves, Pratt & Cady Swinging Check Valves, Asbestos Packed Cocks, for Boiler blow-off. Vulcabeston Sheet and Rope Packing.



O'BRIEN VARNISH CO

MANUFACTURERS OF

HIGH GRADE VARNISHES

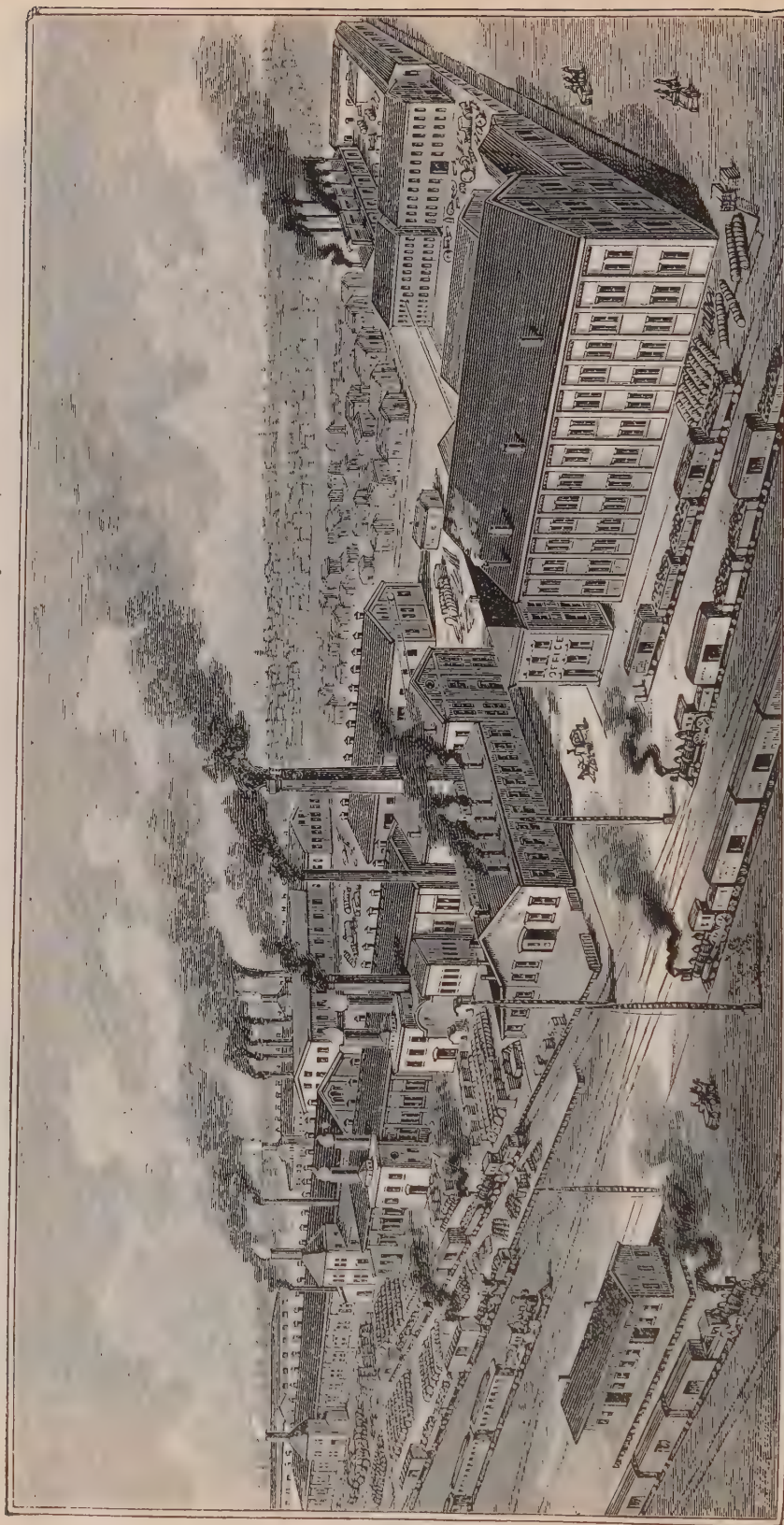
AND
ABSOLUTELY PURE LINSEED OIL
SOUTH BEND, INDIANA.





CONNECTICUT STATE BUILDING.

❖ BASS FOUNDRY AND MACHINE WORKS, FORT WAYNE, IND., U. S. A. ❖
(Established 1853. Present Works cover Twenty Acres.)



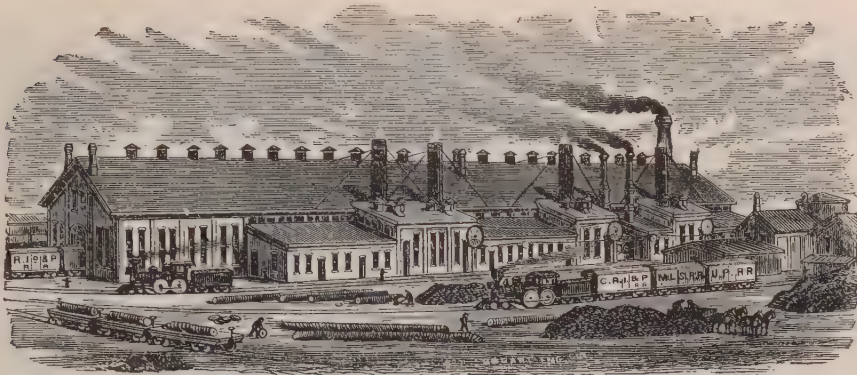
WHEELS.—Chilled cast iron wheels and steel tired wheels for standard and narrow gauge and street railroads.
CASTINGS.—Car and locomotive castings and general foundry work.
FORGINGS.—Car and locomotive axles, locomotive frames, hammered iron and steel shafts and forgings of every description.



ENGINES.—Corliss engines from 50 H. P. up. Simple and compound and condensing.
BOILERS.—Tubular and railroad locomotive boilers. Heavy duty rolling mill engines and complete power outfits for electric light and electric street railways a specialty. Highest grade. Closest regulation. Greatest durability. Best economy.

J. H. BASS

MANUFACTURER OF



CAR, ENGINE, TENDER, TRUCK AND DRIVING WHEELS,
CYLINDERS, RAILROAD AND GENERAL CASTINGS.

OFFICE, 97 DEARBORN STREET,

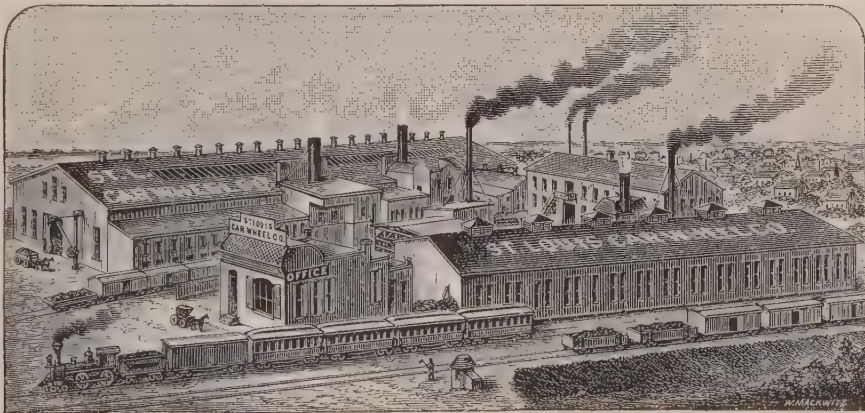
WORKS NEAR C., R. I. & P. R. R. SHOPS

A. WALLAGE, Supt.

CHICAGO, ILL.

J. H. BASS, President, Fort Wayne, Ind.
J. I. WHITE, Vice-President.

R. W. GREEN, Secretary.
J. M. DUTRO, Treasurer.



ST. LOUIS CAR WHEEL COMPANY,

MANUFACTURERS OF ALL KINDS OF

CHILLED WHEELS and CASTINGS.

GENERAL OFFICE AND WORKS:

CABANNE ST. AND MO. PAC. RY.

CITY OFFICE:

607-608 BANK OF COMMERCE BUILDING,
Broadway and Olive Streets.

ST. LOUIS, MO.



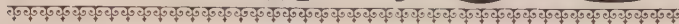
ARKANSAS STATE BUILDING.

WESER BROTHERS

MANUFACTURERS OF



PIANOS

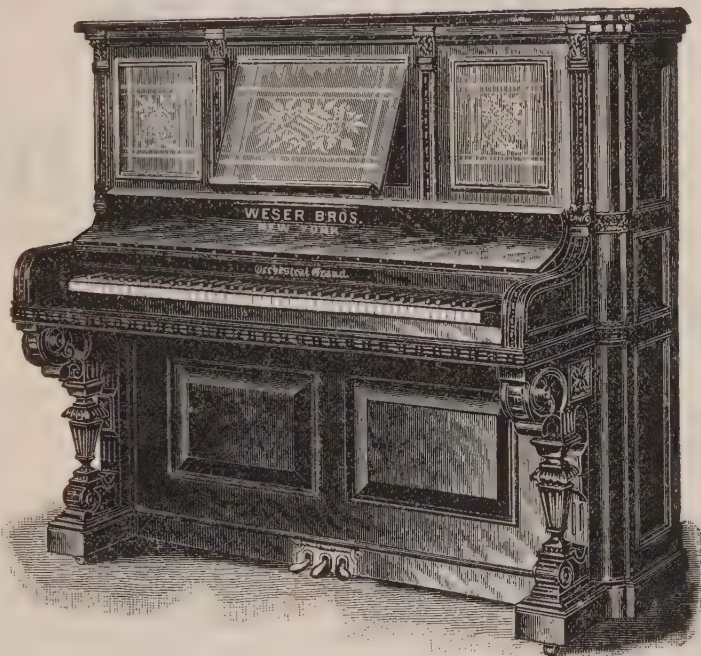


FACTORIES AND OFFICE:

520, 522, 524, 526, 528
WEST 43d STREET,

NEW YORK.

SIX PATENTED IMPROVEMENTS USED IN
NO OTHER PIANOS.



THE RESULT IS OVER 17,000 MADE
AND IN USE.

STYLE E. UPRIGHT GRAND

MADE IN

■ ■ FANCY BURL WALNUT, RICH MAHOGANY,
ANTIQUE OAK, EBONIZED CASE.

*The following exclusive patents are used in our Pianos, viz: Responsive Metal Pedal Action,
Double Keyboard Support, Harmonic Harp Pedal FOR PRACTICING, Automatic
Music Desk; also Counterbalancing Duetto Desk and Expression Swell.*

WRITE FOR ILLUSTRATED CATALOGUE AND PRICES.

4 POINTS OF SUPERIORITY

OF THE


Celebrated

“Conover”

Pianos.

 PURITY AND SWEETNESS OF TONE.

 SCIENTIFIC CONSTRUCTION.

 DURABILITY.

 BEAUTY.

(THE ONLY STRICTLY
HIGH GRADE PIANO
MANUFACTURED
IN CHICAGO.)

Chicago Cottage Organ Company,

SOLE FACTORS.

(THE LARGEST DEALERS IN PIANOS AND ORGANS IN THE WORLD.)

WHOLESALE AND RETAIL WAREROOMS,

{SECOND FLOOR.}

215 Wabash Avenue, CHICAGO, U. S. A.

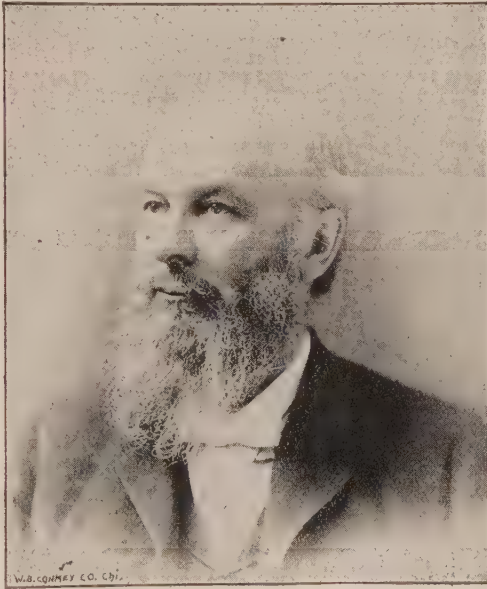
DEPARTMENT L--LIBERAL ARTS.

THE mass of visitors to the Fair come by rail and alight at the central point of the grounds in front of the Administration Building. Thence moving toward the lake, they pass along the broad esplanade, having on their right, first, Machinery Hall, then the Hall of Agriculture; on their left, the Hall of Mines, the Hall of Electricity; then they come to the splendid façade of the Main Building, nearly 800 feet in length, upon which appears the inscription "To the Liberal Arts."

In this department are found exhibits pertaining to education, hygiene, sanitation, charities, medicine and surgery, literature, books, libraries, journalism, physical science, engineering, architecture, government and law, commerce, social and religious organizations, music and the drama. As the central idea of the Exposition is to educate by making all displays exponents of the world's advancement, no department affords greater interest to the visitor than that of the Liberal Arts. The department occupies nearly the whole of the second or gallery floor of the grand building fronting the lake called the building

for Manufactures and Liberal Arts. Two of its bureaus are located in the Building. The Anthropological Music Hall at the grand basin and opposite the entrance of the Choral Hall, also included in this department.

Each succeeding World's Fair, beginning with that held in London in 1851, has been the master of the single educational influence has been extensively active. This is because each national exponent of that progress in education, taken in its broadest and fullest sense, has been most pronounced. Recognizing these truths, the promoters of the World's Columbian Exposition have given to education a position of high prominence in the center of interest and in the grandest of all the great structures. Here



S. H. PEABODY, CHIEF.

Education is surrounded by her hand-maids—Music, Science, Literature, Charity, Religion—and these, grouped together, as by their nature is most fitting form the constellation of the Liberal Arts. These are the arts whose advancement has made the closing century glorious, and has made all mankind free in the light of truth and law and liberty. Very earnest expressions of demand for a separate building for Liberal Arts, or for education alone, were presented from all sections of the country before the opening of the Exposition, but a careful consideration of all the conditions has led those directly connected with the department to the belief that the present solution of the question is satisfactory, as the amount of space provided is fairly adequate, as compared to that given to other departments; its position is central, convenient, dignified and worthy, and its location, in one entire end of the great Manufactures Building, is much to be preferred above any which would have placed the department

away from immediate association with the remainder of the Exposition—a contingency that most likely would have arisen if a separate and distinct building had been provided. This question was carefully considered by the Board of Control and an appropriation for an Educational Building was made in response to urgent requests from many educators throughout the land. An eligible site for such a building was carefully sought for but could not be found, and the purpose to erect a separate structure was abandoned, not from any lack of appreciation of the department of the Liberal Arts, or from want of interest in its work, but wholly as a matter of expediency.

The department includes twelve distinct and separate groups. The exhibits of the first group are divided between two bureaus, that of Hygiene and Sanitation, and that of Charities and Correction, and are installed in the Anthropological Building. The subjects cared for by the Bureau of Hygiene are the nursery and its accessories; athletic training and exercise; gymnasiums; food supply and its distribution; representations of dwellings and buildings characterized by the conditions best adapted to health and comfort; sanitary appliances and methods for dwelling houses, buildings and cities; hygiene of the workshop and factory, modified from that of the London Health Exhibition; sanitary supervision, including quarantine and the isolation of contagious diseases. The Bureau of Charities and Correction presents matters pertaining to the sick and the needy; asylums, homes, hospitals, dispensaries; appliances for the transportation and relief of the sick and wounded. Prison management and discipline; models and specimens of police stations, houses of correction, reform schools, dress and equipment of prisoners, samples of convict workmanship; the Bertillon system of personal measurements, etc.

In the second group come instruments and apparatus of medicine, surgery and prosthesis, including drugs and medicines, dietetic preparations intended for the sick, instruments for physical diagnosis, surgical instruments, artificial limbs and dental apparatus. This group is arranged in the north end of the gallery floor. Primary, secondary and superior educational statistics, apparatus and appliances are exhibited in a group, wherein are shown infant schools and kindergartens; text books, diagrams and specimens of work in elementary schools; specimens of domestic and industrial training for girls; handicraft teaching in schools for boys; specimens of school work in chemistry, physics, mechanics, etc.; art work, modeling, etc.; results of industrial work; exhibits of elementary instruction of Indians; schools for the deaf, blind, and feeble-minded; statistics, methods of instruction in public schools; descriptions and statistics of academies and high-schools; buildings, libraries, museums, courses of study, etc., pertaining to colleges and universities; various branches of professional schools, such as law, theology, pharmacy, mining, military, commercial, etc. Distinct exhibits are presented by thirty States and Territories; about forty colleges and universities, including six for women, and seven distinctively for the colored race, more than thirty normal schools; a series of manual training and trade schools; sixteen art schools; collective exhibits from thirty business colleges; fifty schools for the deaf; schools for the blind; schools for those of feeble mind, etc. An extended exhibit shows the work of the schools conducted under the control of the Catholic church. Educational exhibits are presented by the School Board of London; from New South Wales, and Canada; from the Governments of France, Russia, Austria, Mexico and Brazil; a very complete exhibit prepared under the orders of the Imperial Minister of Education of Germany. The exhibits from the United States occupy about 175,000 feet on the south end of the gallery floor; the foreign exhibits occupy nearly 50,000 feet beside.

In the group of literature and books are found exhibits of miscellaneous and educational publications; the great magazines; engraving, lithographing; maps and charts, etc. Then come instruments of precision; weights and measures; astronomical instruments, including the great refractor of forty inches aperture;

geodetic, hydrographic, meteorological, optical, acoustic and chronometric instruments; photographic apparatus and a gallery of photographs. Architectural drawings, specifications for foundations, walls, partitions, floors, roofs and stairways; contrivances for safety, comfort and convenience in the manipulation of elevators, doors and windows; working plans for hoisting, handling and delivering building materials, for paving and draining, etc. Statistics and publications of religious organizations and systems, showing the origin, nature, growth and extent of various religious systems and faiths; maps and reports of missionary societies, missions and missionary work; bible societies, tract societies and other publications.

In the group including music and the drama an interesting collection of instruments and literature pertaining to these arts is to be seen. Here are exhibited crude and curious instruments; music books and scores; drums, tambourines, cymbals, triangles, gongs, castanets; music boxes; lutes, guitars, banjos and mandolins; harps and lyres; zithers, dulcimers violins, the viol, viola, viola da gamba, viola di amore, the violoncello and the bass viol; the piano-forte—square, upright and grand—actions and parts of a piano; the predecessors of the piano—clavicytherium, clavicymbal, clavichord, manichord, virginal, spinet, harpsichord and hammer harpsichord; street pianos; the flute, flute-a-bec, syrinx, organ pipes, flageolet, clarionet, oboe and saxophone; the trumpet (simple) and the bugle (oliphant), alpenhorn; the trombone (with slide and with finger-holes); the serpent, bassoon and bag-pipe; key bugles, cornets, French horns, cornopeans, orphicleides; reed organs, melodeons and harmonicas; accordions, concertinas and mouth organs; hand organs and organettes; automatic organs, orchestrions; strings, reeds, bridges; mechanical devices for the orchestra, etc. The grand pipe organ in the Music Hall is part of this exhibit, as are also the chime of bells in the central tower, and the chime in on one of the towers of Machinery Hall.

The Bureau of Music was a branch of the Department of Liberal Arts committed to the charge of three officers, viz.: The musical director, Mr. Theodore Thomas, the choral director, Mr. William L. Tomlins, and a secretary, Mr. George H. Wilson. Mr. Thomas is the senior in authority of the bureau, and has as his special province the orchestral features of the music for the Exposition, and the bands which are provided for concerts in the halls and in the open air upon the grounds. The choral features of the music are under the direction of Mr. Tomlins, who has organized the assemblages of choruses from various cities of the Union for the choral festivals in the Music Hall and Festival Hall of the Exposition. The secretary of the bureau, Mr. Wilson, has charge of the business matters connected therewith, the preparation of contracts, the making of dates for the various concerts and festivals, the promulgation of information relative thereto and of the programmes.

The Committee on Liberal Arts of the Board of Directors, through its chairman, Mr. James W. Ellsworth, supervises the work of this bureau, and the expenditure of the large sums of money which the board has appropriated for the purpose of rendering the music of the Exposition equal to the representation of the other arts upon the grounds.

....FOUNDED 1823....

CHICKERING PIANOS

1893.

PLAYED AND ENDORSED BY THE
WORLD'S MOST EMINENT
MUSICIANS.

83,000
PIANOS

MANUFACTURED AND SOLD.



IMPERIAL CROSS
LEGION OF HONOR.



HIGHEST
RECOMPENSE EVER
AWARDED.



SINCE the first Piano manufactured by JONAS CHICKERING in 1823, we have made none but the

∴ HIGHEST GRADE PIANOS ∴

And with an experience of SEVENTY years, an unquestioned reputation, and every facility for the best and most durable work, we confidently assert that our productions of the present year are the finest we have ever offered, and represent both in exterior finish, action and quality of tone, the highest excellence in Piano manufacture.

We solicit for them the critical examination of the musical profession and the public.



CHICKERING & SONS, 791 TREMONT STREET,
...BOSTON, MASS.

CLASSIFICATION.

LIBERAL ARTS DEPARTMENT (L).

LIBERAL ARTS—EDUCATION, LITERATURE, ENGINEERING, PUBLIC WORKS;
MUSIC AND THE DRAMA.

GROUP 147.

PHYSICAL DEVELOPMENT, TRAINING AND CONDITION—HYGIENE.

- Class 824. The nursery and its accessories.
- Class 825. Athletic training and exercise gymnasiums; apparatus for physical development and of gymnastic exercises and amusement; skating, walking, climbing, ball-playing, wrestling, acrobatic exercises; rowing, hunting, etc. Special apparatus for training in schools, gymnasia; apparatus for exercise, drill, etc.
- Class 826. Alimentation—food supply and its distribution; adulteration of food, markets, preparation of food, cooking and serving, school kitchens and arrangements for school canteens, methods of warming children's meals, etc. Dinner-pails, or receptacles for carrying meals for school children, working men, and others. Restaurants, dining halls, refectories, etc.
- Class 827. Dwellings and buildings characterized by the conditions best adapted to health and comfort, including dwellings for working men and factory operatives, houses and villages for operatives in connection with large manufacturing establishments, tenement houses, "flats," and suits of apartments, city and country residences, club-houses, school-houses; designs and models of improved buildings for elementary schools, infant schools and *crèches*, court-rooms, theatres, churches, etc.
- Class 828. Hotels, lodging-houses.
- Class 829. Public baths, lavatories; public and domestic hygiene. Sanitation—sanitary appliances and methods for dwelling-houses, buildings and cities. Direct renewal of air. Heating, ventilating, lighting, in their relation to health. Conduits of water and sewage. Drains and sewers. Sinks, night-soil apparatus, sanitary plumbing, walls, bricks, roofs, flooring, etc. Sanitary house decoration—non-poisonous paints and wall-papers, floor coverings, washables, decorations, etc.
- Apparatus for carrying off, receiving and treating sewage. Slaughter-house refuse, city garbage.
- Apparatus and methods for filtering water and cleansing water-courses.
- Apparatus intended for the prevention of infectious diseases. Methods, materials and instruments for purifying and destroying germs; disinfectors.
- Apparatus and fittings for warming, ventilating, and lighting schools; school latrines, closets, etc.
- Special school fittings for storing and drying clothing.
- Precaution in schools for preventing the spread of infectious diseases; school sanitarium, infirmaries, etc.
- Class 830. Hygiene of the workshop and factory—(Classification modified from that of the London Health Exhibition.)
- Designs and models for improvement in the arrangement and construction of workshops, especially those in which dangerous or unwholesome processes are conducted.
- Apparatus and fittings for preventing or minimizing the danger to health or life from carrying on certain trades. Guards, screens, air-jets, preservative solutions, washes, etc.
- Objects of personal use.—Mouth-pieces, spectacles, dresses, hoods, etc., for use in certain unhealthy and poisonous trades.
- Illustrations of diseases and deformities caused by unwholesome trades and professions; methods of combating these diseases; preservative measures, etc.
- Sanitary construction and inspection of workshops, factories and mines; new inventions or improvements for ameliorating the condition of life of those engaged in unhealthy occupations; means for economizing human labor in various industrial operations.
- Class 831. Asylums and homes.—Asylums for infants and children; foundling and orphan asylums; children's aid societies. Homes for aged men and women; for the maimed and deformed; for soldiers and for sailors.
- Treatment of paupers; almshouses.
- Treatment of aborigines; Indian reservations and homes.
- Class 832. Hospitals, dispensaries, etc.; plans, models, statistics. Shed hospitals for infectious fevers and epidemic diseases; tent hospitals; hospital ships; furniture and fittings for sick rooms.

- Class 833. Protective supervision.—Sanitary supervision; vaccination and its enforcement; isolation of contagious diseases; quarantine; prevention and elimination of animal epidemics.
 Food inspection.—Treatment of adulterated foods; inspection and analysis; treatment of stale food substances; regulation of abattoirs, mills, etc.; regulation of sale of horses; protective devices.
 Building inspection, etc.—Building regulations and inspection; building drainage and plumbing; fire regulations, fire escapes, etc.
 Personal inspection.—Color tests, etc.; professional examination for licenses.
 Immigration.—Reception, care and protection of immigrants.

GROUP 148.

INSTRUMENTS AND APPARATUS OF MEDICINE, SURGERY AND PROSTHESIS.

- Class 834. Pharmacology, drugs, pharmacy, etc.—Medicines, officinal (in any authoritative pharmacopœia) articles of the materia medica, preparations unofficinal. (See Group 87.)
 Class 835. Dietetic preparations intended especially for the sick. (For beef extracts see Class 38.)
 Class 836. Instruments for physical diagnosis, clinical thermometers, stethoscopes, ophthalmoscopes, etc.
 Class 837. Surgical instruments, appliances and apparatus, with dressings, anæsthetics, anti-septics; obstetrical instruments, etc.
 Class 838. Prosthesis.—Apparatus for correcting deformities; artificial limbs.
 Class 839. Instruments and apparatus of dental surgery and prosthesis.
 Class 840. Vehicles and appliances for the transportation and relief of the sick and wounded, during peace or war, on shore or at sea. (See also Department G.)

GROUP 149.

PRIMARY, SECONDARY AND SUPERIOR EDUCATION.

- Class 841. Elementary instruction.—Infant schools and kindergartens. Descriptions of the methods of instruction, with statistics.
 Class 842. Primary schools, city and country. School-houses and furniture. Apparatus and fittings. Models and appliances for teaching, text-books, diagrams, examples. Specimens of work in elementary schools.
 Class 843. Domestic and industrial training for girls.—Models and apparatus for the teaching of cookery, housework, washing and ironing, needle-work, and embroidery, dress-making, artificial flower-making, painting on silk, crockery, etc. Specimens of school work.
 Class 844. Handicraft teaching in schools for boys.—Apparatus and fittings for elementary trade teaching in schools. Specimens of school work.
 Class 845. Science teaching.—Apparatus and models for elementary science instruction in schools. Apparatus for chemistry, physics, mechanics, etc.; diagrams, copies, text-books, etc.; specimens of the school work in these subjects.
 Class 846. Art teaching.—Apparatus, models and fittings for elementary art instruction in schools; diagrams, copies, text-books, etc.; specimens of art work, modeling, etc., in schools.
 Class 847. Technical and apprenticeship schools.—Apparatus and examples used in primary and secondary schools for teaching handicraft; models, plans and designs for the fitting up of workshop and industrial schools; results of industrial work done in such schools.
 Class 848. Special schools for the elementary instruction of Indians.
 Class 849. Education of defective classes.—Schools for the deaf, dumb, blind, and feeble-minded; adult schools for the illiterate.
 Class 850. Public schools.—Descriptions, illustrations, statistics, methods of instruction, etc.
 Class 851. Higher education.—Academies and high schools. Descriptions and statistics. Colleges and universities.—Descriptions, illustrations of the buildings, libraries, museums, collections, courses of study, catalogues, statistics, etc.
 Class 852. Professional schools.—Theology, law, medicine and surgery, dentistry, pharmacy; mining, engineering, agriculture, mechanic arts; art and design, military, naval, normal, commercial; music.
 Class 853. Government aid to education.—National Bureau of Education. Reports and statistics.

GROUP 150.

LITERATURE, BOOKS, LIBRARIES, JOURNALISM.

- Class 854. Books and literature, with special examples of typography, paper, and binding. General works.—Philosophy, religion, sociology, philology, natural sciences, useful

arts, fine arts, literature, history, and geography; cyclopedias, magazines, and newspapers; bindings, specimens of typography.

- Class 855. School books.
- Class 856. Technical industrial journals.
- Class 857. Illustrated papers.
- Class 858. Newspapers and statistics of their multiplication, growth and circulation.
- Class 859. Journalism, statistics of; with illustrations of methods, organization and results.
- Class 860. Trade catalogues and price-lists.
- Class 861. Library apparatus; systems of cataloguing and appliances of placing and delivering books.
- Class 862. Directories of cities and towns.
- Class 863. Publications by governments.
- Class 864. Topographical maps. Marine and coast charts; geological maps and sections; botanical, agronomical, and other maps, showing the extent and distribution of men, animals and terrestrial products; physical maps; meteorological maps and bulletins; telegraphic routes and stations, railway and route maps; terrestrial and celestial globes, relief maps and models of portions of the earth's surface, profiles of ocean beds and routes of submarine cables.

GROUP 151.

INSTRUMENTS OF PRECISION, EXPERIMENT, RESEARCH, AND PHOTOGRAPHY. PHOTOGRAPHS.

- Class 865. Weights, measures; weighing and metrological apparatus—Balances of precision, instruments for mechanical calculation, adding machines, pedometers, cash registers, water and gas meters, etc.; measures of length, graduated scales, etc. (For ordinary commercial forms, see also Group 112.) (For testing machines, see Class 490.)
- Class 866. Astronomical instruments and accessories—Transits, transit circles, mural circles, zenith sectors, altazimeters, equatorials, collimators, comet-seekers.
- Class 867. Geodetic and surveying instruments—Transits, theodolites, artificial horizons, surveyor's compasses, goniometers; instruments for surveying underground in mines, tunnels, and excavations; pocket sextants, plane tables, and instruments used with them; ship's compasses, sextants, quadrants, repeating circles, dip-sectors, etc.
- Class 868. Leveling instruments and apparatus—hand-levels, water-levels, engineer's levels, of all patterns and varieties; cathetometers, leveling staves, targets, and accessory apparatus.
- Class 869. Hydrographic surveying; deep sea sounding.
- Class 870. Photometric apparatus and methods.
- Class 871. Photographic apparatus and accessories. Photographs.
- Class 872. Meteorological instruments and apparatus, with methods of recording, reducing and reporting observations. Thermometers—mercurial, spirit, air; ordinary or self-registering, maximum and minimum. Barometers—mercurial, aneroid; anemometers, rain gauges, etc.
- Class 873. Chronometric apparatus—Chronometers, watches of precision, astronomical clocks, church and metropolitan clock, clepsydras, hour-glasses, sun-dials, chronographs, electrical clocks, metronomes. (For commercial clocks and watches, see also Group 99.)
- Class 874. Optical and thermometric instruments and apparatus.
- Class 875. Electric and magnetic apparatus. (See also Department J.)
- Class 876. Acoustic apparatus.

GROUP 152.

CIVIL ENGINEERING, PUBLIC WORKS, CONSTRUCTIVE ARCHITECTURE.

- Class 877. Land surveying, topographical surveying.—Surveys and locations of towns and cities, with systems of water supply and drainage.
- Class 878. Surveys of coasts, rivers, and harbors.
- Class 879. Construction and maintenance of roads, streets, pavements, etc.
- Class 880. Bridge engineering (illustrated by drawings and models.)
 Bridge designing.—Drawings and charts, showing methods of calculating stresses. Foundations, piers, abutments and approaches of stone, wood, etc.
 Arch bridges of stone, wood or iron.
 Suspension bridges of fibre, iron, chain and cable.
 Truss bridges of wood, iron and steel.—Pony, bow-string and plate girders, lattice girders, Fink, Bollman, Howe, Pratt, Warren, Post, Long, Whipple and other trusses of special design.
 Cantilever bridges, draw-bridges, rolling and swinging machinery.
 Tubular bridges.
 Railway, aqueduct, and other bridges of special design not elsewhere classed.
- Class 881. Subaqueous constructions.—Foundations, piers, harbors, break-waters, building of dams, water-works, and canals.

- Class 882. Irrigation.—Irrigating canals and systems.
- Class 883. Railway engineering.—Surveying, locating and constructing railways.
- Class 884. Dynamic and industrial engineering.—The construction and working of machines; examples of planning and construction of manufacturing and metallurgical establishments.
- Class 885. Mine engineering.—Surveying underground, construction of tunnels, subaqueous tunnels, etc.; locating and sinking shafts, inclines, and winzes; driving levels, draining, ventilating, and lighting. (See also Department E.)
- Class 886. Military engineering.—Construction of earth-works, breast-works and temporary fortifications.
- Class 887. Permanent works.—Fortifications, magazines, arsenals, mines.
- Class 888. Roads, bridges, pontoons, etc.; movement of troops and supplies.
- Class 889. Constructive architecture.—Plans of public buildings for special purposes; large and small dwelling houses.
 Drawings and specifications for foundations, walls, partitions, floors, roofs, and stairways.
 Estimates of amount and cost of material.
 Designs and models of special contrivances for safety, comfort, and convenience in the manipulation of elevators, doors, windows, etc.
 Working plans for the mason, carpenter and painter; designs and models of bonds, arches, coping, vaulting, etc.; plastering and construction of partitions; painting and glazing.
 Plans of appliances for hoisting, handling and delivering building materials to artisans.—Scaffolding and ladders, special scaffolding for handling great weights; portable cranes and power elevators.
 Illustrations of the strength of materials.
 Plans and sections of special architectural forms. Metallic floor beams and girders; hollow bricks and other architectural pottery for heating and ventilation; metallic cornice and conduits, shingles and sheathing, glass roofs, floors and accessories, architectural hardware.
 Methods of combining materials.
 Protection of foundations, areas and walls against water.
 Working plans for paving and draining.

GROUP 153.

GOVERNMENT AND LAW.

- Class 890. Various systems of government illustrated.—Government departments, legislative, executive, and judicial.
- Class 891. International law and relations.—Fac-similes of treaties, etc.
- Class 892. Protection of property in inventions. Patent offices and their functions, statistics of inventions and patents.
- Class 893. Postal systems and the appliances of the postal service. Letter-boxes, pouches, mail-bags, postage stamps, etc.
- Class 894. Punishment of crime.—Prisons and reformatories, prison management and discipline, transportation of criminals, penal colonies, houses of correction, reform schools, naval or marine discipline, punishment at sea, police stations, night lock-ups, etc.; dress and equipment of prisoners, examples of convict workmanship.

GROUP 154.

COMMERCE, TRADE AND BANKING.

- Class 895. History and statistics of trade and commerce.
- Class 896. Railway and transportation companies.
- Class 897. Methods and media of exchange.—Money, coins, paper money, etc.
- Class 898. Counting houses, stores, and shops.—Arrangement, furniture fittings; methods of management, book-keeping, devices for distributing change and goods to customers.
- Class 899. Warehouse and storage systems.—Grain elevators.
- Class 900. Boards of Trade and their functions illustrated.
- Class 901. Exchanges for produce, metals, stocks, etc.
- Class 902. Insurance companies.
- Class 903. Banks and banking.—Illustrations of buildings, interiors, methods, and statistical information; clearing-houses, etc.; savings and trust institutions.
- Class 904. Safes and vaults for storage of treasure and valuables; safe deposit companies.
- Class 905. Book-keeping.—Books and systems of book-keeping and accounting, commercial blank forms, etc.
- Class 906. Express companies, freighting, etc.

GROUP 155.

INSTITUTIONS AND ORGANIZATIONS FOR THE INCREASE AND DIFFUSION OF KNOWLEDGE.

- Class 907. Institutions founded for the increase and diffusion of knowledge, such as the Smithsonian Institution, the Royal Institution, the Institute of France, British Association for the advancement of Science, and the American Association, etc., their organization, history and results.
- Class 908. Academies of science and letters.—Learned and scientific associations, geological and mineralogical societies, etc.; engineering, technical, and professional associations; artistic, biological, zoological, medical, astronomical societies and organizations.
- Class 909. Museums, collections, art galleries, exhibitions of works of art and industry; agricultural fairs, state and county exhibitions, national exhibitions, international exhibitions, international congresses.
- Class 910. Publication societies.
- Class 911. Libraries—public and private; statistics of operations

GROUP 156.

SOCIAL, INDUSTRIAL, AND CO-OPERATIVE ASSOCIATIONS.

- Class 912. Social organizations.—Clubs—political, military, university, travelers; press clubs, science clubs, and others.
- Class 913. Political societies and organizations.
- Class 914. Workingmen's unions and associations. Their organization, statistics, and results.
- Class 915. Industrial organizations.
- Class 916. Co-operative trading associations.
- Class 917. Secret societies.
- Class 918. Miscellaneous organizations for promoting the material and moral well-being of the industrial classes.

GROUP 157.

RELIGIOUS ORGANIZATIONS AND SYSTEMS—STATISTICS AND PUBLICATIONS.

- Class 919. Religious organizations and systems.—Origin, nature, growth, and extent of various religious systems and faiths. Statistical, historical and other illustrations; pictures of buildings; plans and views of interiors.
- Class 920. Religious music, choirs, hymnology.
- Class 921. Missionary societies, missions, and missionary work; maps, reports, statistics.
- Class 922. Spreading the knowledge of religious systems by publications; Bible societies, tract societies, and their publications.
- Class 923. Systems and methods of religious instruction and training for the young; Sunday-schools, furniture, apparatus and books.
- Class 924. Associations for religious or moral improvement.
- Class 925. Charities and charitable associations connected with ecclesiastical societies.

GROUP 158.

MUSIC AND MUSICAL INSTRUMENTS—THE THEATRE.

- Class 926. History and theory of music.—Music of primitive people. Crude and curious instruments. Combinations of instruments, bands and orchestras. Music books and scores. Musical notation.
History and literature of music. Portraits of great musicians.
- Class 927. Self-vibrating instruments.—Drums and tambourines; cymbals, triangles, gongs, castanets, "bones."
Bells, chimes and peals.
Bell-ringers' instruments. Musical glasses.
Glockenspiels, zylphones, marimbas.
Music boxes.
- Class 928. Stringed instruments played with the fingers or plectrum.
Lutes, guitars, banjos and mandolins.
Harps and lyres.
Zithers, dulcimers.
- Class 929. Stringed instruments played with the bow.
The violin.
The viol, viola, viola da gamba, viola di amore.
The violincello and the bass viol.
Mechanical instruments.—Hurdy-gurdy and violin piano.
- Class 930. Stringed instruments with key-board.—The piano-forte—square, upright and grand.
Actions and parts of a piano.
The predecessors of the piano.—Clavicytherium, clavicymbal, clavichord, manichord, virginal, spinet, harpsichord, and hammer harpsichord.

- Instruments and methods of manufacture.
Street pianos.
- Class 931. Wind instruments, with simple aperture or plug mouthpiece. The flute, flute-a- bec. Syrinx. Organ-pipes. Flageolet.
- Class 932. Wind instruments, with mouthpiece regulated by the lips. The clarinet, oboe and saxophone.
- Class 933. Wind instruments with bell mouthpiece, without keys. The trumpet (simple) and the bugle. Oliphant. Alpenhorn. The trombone (with slide and with finger-holes). The serpent, bassoon and bag-pipe.
- Class 934. Wind instruments with bell mouth-piece, with keys. Key bugles, cornets, French horns. Cornopeans, orphicleides.
- Class 935. Wind instruments with complicated systems.
The pipe organ.
Reed organs, melodeons and harmonicas.
Accordions, concertinas and mouth organs.
Hand organs and organettes. Automatic organs, orchestrions, etc.
- Class 936. Accessories of musical instruments—strings, reeds, bridges.
Conductor's batons, drum-majors' staves. Mechanical devices for the orchestra.
Tuning forks, pitch-pipes, metronomes, music stands, etc.
- Class 937. Music in relation to human life.—Musical composers. Great performers. Great singers. Portraits. Biographies.
Concerts and the concert stage.
The opera. The oratorio. Masses.
Church music and sacred music of all periods. Hymnology, ballads, folk-song, and folk-music of all lands. National airs.
- Class 938. The theatre and the drama. The stage. Plans and models of stages and theatres.
History of the drama, so far as can be shown by literary record. Portraits of actors.
Relics of actors.
Playbills, etc. Costumes, masks, armor. Scenery. Appliances of illusion, etc.
Plays of all ages and peoples.

Department L.--Liberal Arts.

UNITED STATES.

GROUP 147.

Physical Development, Training and Condition—Hygiene.

Exhibits in this group are installed in the Anthropological Building.

1. Alexander, Dr. H. M., & Co., Marietta, Pa. Vaccine virus. E-W-4 833
2. American Continental Sanitas Company, New York. Antiseptics and disinfectants. E-V-2 829
3. American Sporting Goods Company, St. Louis, Mo. Whitley exercises. E-S-6 825
4. Automatic Fountain Company, Canton, Ohio. Fountain air purifier. E-S-4 829
5. Banneman, William, Chicago. Phenyle disinfectant. E-V-2 829
6. Beneficent Building Association, Philadelphia. Plans of model tenement house. E wing, frames V-4 827
7. Benson, B. S., Baltimore, Md. Air purifiers and filters. E-S-4 829
8. Beveridge, W. E., Baltimore, Md. Automatic steam cookers. E-T-6 826
9. Bowden, J. A., & Co., Detroit, Mich. Water filters and domestic water filters. E-V-2 829
10. Brown & Sharp Manufacturing Co., Providence, R. I. Sanitary closets. E-V-1 829
11. Columbia Automatic Filter Company, Washington, D. C. Water filters. E-T-2 829
12. Cram, A. W., Haverhill, Mass. Clean-out for drains, etc. E-S-4 829
13. Cummings Filter Company, Philadelphia. Water filters. E-T-4 829
14. Davis, M. L., M. D., Lancaster, Pa.
 - a Models of garbage and crematory furnaces. E-S-3 829
 - b Plan of quarantine hospital. 833
15. Eclipse Filter Company, Philadelphia. Water filters. E-T-4 829
16. Engle Sanitary & Cremation Co., Des Moines, Iowa.
 - a An iron or brick fire closet for domestic waste. Hospital furnace for infectious material. E-S-3 829
 - b Garbage cremators for city use. School fire closet. (Out-door exhibit.)
17. Gate City Stone Filter Company, New York. Water filters. E-T-3 829
18. Guenantin, Jean Marie, Chicago. Models, maps and drawings of suggested plan for sewerage of Chicago. E-V-1 829
19. Hess, Geo. H., Company, Chicago. Apparatus, models, and plans showing mode of ventilating and warming schools, houses, etc. E-S-9 829
20. Hunting, Nelson, M. D., Albany, N. Y. Automatic water purifying apparatus. E-T-1 829
21. Hydromaze Manufacturing Company, New York City. Hydromaze, or health guard. E-T-2 829
22. Illinois State Board of Health, Springfield, Ill. Maps illustrative of sanitary condition of Chicago. E-W-1 833
23. Improved Dwelling Company, New York. Model and plans of improved dwelling for working men. E-S-5 827
24. Jensen, Hans H., Milwaukee. Odorless water closets. E-V-1 829
25. Koch, Christian H., Chicago. Electrical apparatus for purifying water and meat. E-V-1 829
26. Ladies' Sanitary Association, London, England. Publication of the association. Sec. E 833
27. Louisiana State Board of Health, New Orleans, La. Models of quarantine station and disinfectors. E-W-5 833
28. Maine State Board of Health, Augusta, Me. Charts and plans relating to school-houses. Sec. E 833
29. Massachusetts State Board of Health, Boston. Analytical work in food adulterations, water, etc. E-V-5 833
30. McConnell Filter Company, Buffalo, N. Y. Germ-proof water filters. E-T-5 829
31. Medical and Surgical Sanitarium, Battle Creek, Mich. Economic and hygienic dress for women, apparatus for anthropometry and physical training. E-S-6 825
32. Michigan State Board of Health, Lansing, Mich. Diagrams illustrating work in prevention of disease; set of publications. E-W-1 833
33. Miller, Chas. H., Pittsburg. Appliances for cleaning water mains. E-S-4 829
34. Minnesota State Board of Health, Red Wing, Minn. Charts, diagrams and publications illustrating protection and sanitary work. Wing frames, Sec. E 833
35. Narragansett Machine Company, Providence, R. I. Gymnastic apparatus and appliances. E&F 825
36. New York Ladies Health Protective Association, New York. Models and photographs of abattoirs and of dust-cart. E-V-7 826

DEPARTMENT L.—LIBERAL ARTS.

37. **New York State Board of Health**, Albany, N. Y. Maps, drawings and publication relating to public health. Sec. E 833
38. **New Jersey State Board of Health**, Trenton, N. J. Specimens of adulterations of foods and drugs; maps and publications. Sec. E 833
39. **Pasteur-Chamberland Filter Company**, Dayton, Ohio. Germ proof filters and filtering apparatus. E-T-3 829
40. **Pennsylvania State Board of Health**, Philadelphia. Portable bacteriological outfit; charts, publications, etc. Sec. E 833
41. **Philadelphia County Women's Committee**, Philadelphia. A model workman's dwelling. (N. E. end of Midway Plaisance.) 827
42. **Remington, Cyrus K.**, Buffalo, N. Y. Photographs of the Buffalo crematory. E-S-5 829
43. **Romney, Mrs. Caroline**, Chicago.
a Warming closet, heat conserver, dinner pail. Gal. F-U-103 826
b Water filter. 829
44. **Stone, Peter**, Los Angeles, Cal. Water filters and coolers. E-T-5 829
45. **Tenement House Building Company**, New York. Drawings, plans and photographs of buildings. Sec. E, wing frames V-4 827
46. **Tennessee State Board of Health**, Nashville, Tenn. Models, plans and charts illustrating sanitary condition of Tennessee. Sec. E 833
47. **Wahl, Albert**, Chicago. Health apparatus. E-S-6 825
48. **Wilmot Castle & Co.**, Rochester, N. Y. Sterilizers, steam cookers and bacteriological apparatus. E-T-6 826
49. **Woods, Justus O.**, New York. Hygienic appliances. E-V-3 830
50. **World's Crystal Water Filter Company**, Chicago. Water filters. E-T-4 829
- GROUP 148.**
- Instruments and Apparatus of Medicine, Surgery and Prosthesis.**
51. **Albany Chemical Company**, Albany, N. Y. Pharmaceutical preparations. Gal. D, F-94 835
52. **Ale & Beef Co.**, Dayton, Ohio. Pharmaceutical preparations. Gal. D, F-99 834
53. **Allen, C. D.**, New York. Artificial dentures. Gal. E, H-101 839
54. **Allison, W. D., Company**, Indianapolis, Ind. Surgical furniture. Gal. E, G-101 837
55. **Anderson Surgical Chair Manufacturing Company**, Anderson, Ind. Surgical furniture. Gal. E, G-101 837
56. **Armour & Co.**, Chicago. Pharmaceutical preparations. Gal. D, F-96 834
57. **Armstrong, Wm. H., & Co.**, Indianapolis, Ind. Surgical instruments and appliances. Gal. E, H-103 837
58. **Ayer, J. C., Company**, Lowell, Mass. Pharmaceutical preparations. Gal. D, Truss F-94 834
59. **Banning, E. P.**, Cleveland, Ohio. Spinal and other appliances. Gal. D, D-101 838
60. **Boericke & Tafel**, Philadelphia. Homœopathic preparations. Gal. D, F-98 834
61. **Boughton & Smith**, Chicago. Artificial teeth and dental specialties. Gal. E, H-101 839
62. **Brown, E., Parmly, International Dental Manufacturing Company**, N. Y. Dental specialties. Gal. E, H-101 839
63. **Brown, Frederick Company**, Philadelphia. Pharmaceutical preparations. Gal. D, F-98 834
64. **Burnham, E. S.**, Chicago. Instruments for catarrhal affections. Gal. E, H-102 837
65. **Burrough Bros. Manufacturing Company**, Baltimore, Md. Pharmaceutical preparations, etc. Gal. D, F-98 834
66. **Canton Surgical & Dental Chair Co.**, Canton, Ohio. Gal. E, G-102
a Surgical chairs and appliances. 837
b Dental chairs and appliances. 839
67. **Carroll Aluminum Manufacturing Company**, Meadville, Pa. Gal. E, F-102
a Stethoscope, ophthalmoscope, etc. 836
b Surgical instruments and appliances. 837
c Orthopedic apparatus. 838
d Dental apparatus. 839
68. **Chicago Truss Company**, Chicago. Trusses, etc. Gal. D, D-102 833
69. **Common Sense Truss Company**, Chicago. Trusses, supporters, etc. Gal. D, D-102 838
70. **Condell, A.**, New York. Artificial limbs. Gal. D, C-103 838
71. **Condell, J., & Son**, New York. Artificial limbs, etc. Gal. D, C-103 838
72. **Daggett Table Company**, Buffalo, N. Y. Posturing tables. Gal. E, K-101 837
73. **Davis, J. T. & A. H.**, New York. Artificial eyes. Gal. E, I-102 838
74. **Deane, Henry F.**, New York. Artificial teeth. Gal. E, H-101 839
75. **Doliber-Goodale Company**, Boston. Food for infants. Gal. D, E-97 835
76. **Doriot, Constant**, Philadelphia. Dental tools, chair, etc. Gal. E, K-101 839
77. **Drevet Manufacturing Company**, New York. Pharmaceutical preparations. Gal. D, F-98 834
78. **Dundas, Dick & Co.**, New York. Pharmaceutical preparations. Gal. D, F-98 834
79. **Evans, George**, New York. Crowns for teeth. Gal. E-K-101 839
80. **Fairchild Bros. & Foster**, New York. Pharmaceutical preparations and digestive ferments. Gal. D, F-94 834
81. **Frees, C. A.**, New York. Artificial limbs. Gal. D, D-103 838
82. **Fuller, George R.**, Rochester, N. Y. Artificial limbs and trusses. Gal. D, D-102 838
83. **Gault Artificial Limb Company**, Woodstock, Ill. Artificial limbs. Gal. D, D-103 838
84. **Harvard Company**, Canton, Ohio. Gal. E, H-102
a Surgical furniture. 837
b Dental furniture. 839

UNITED STATES.

85. **Harvey Human Hand Appliance Company**, New York City. Trusses. Gal. D, D-99 838
86. **Harvey, G. F., Company**, Saratoga Springs, N. Y. Pharmaceutical preparations. Gal. D, D-98 834
87. **Haussmann & Dunn**, Chicago. Surgical instruments. Gal. E, G-103 837
88. **Heinemann, T. W., Co.**, Chicago. Surgical appliances. Gal. E, I-103 837
89. **Horlick's Food Company**, Racine, Wis. Food preparations. Gal. D, F-97 835
90. **International Surgical Instrument Company**, Philadelphia. Surgical instruments. Gal. E, K-103 837
91. **Johnson & Johnson**, New York. Surgical appliances. Gal. E, L-103 837
92. **Land, Charles H.**, Detroit, Mich. Dental cabinet and furnaces. Gal. E, I-101 839
93. **Lee, J. Ellwood**, Company, Conshohocken, Pa. Surgical specialties. Gal. E, H-103 837
94. **Lyons, James I.**, Chicago. Artificial limbs. Gal. D-D-102 838
95. **Marks, A. A.**, New York. Gal. D, D-103
- a Surgical appliances. 837
- b Artificial limbs. 838
- c Invalid vehicles. 840
96. **Marvin Truss Company**, Lansing, Mich. Trusses and abdominal supports. Gal. D, C-103 838
97. **Mason, L. J., & Co.**, Chicago. Electric dental engine and dental instruments. Gal. E, Truss H-101 838
98. **Mellor & Rittenhouse Co.**, Philadelphia. Licorice and products. Gal. D, F-99 834
99. **Meyer, John H.**, New York. Artificial dentures. Gal. E, H-101 839
100. **Miner & Elbreg**, Indianapolis, Ind. Surgical furniture. Gal. E, H-101 937
101. **Modemann, George H.**, New York. Artificial teeth. Gal. E, H-101 839
102. **Niehans, A.**, Chicago. Artificial limbs. Gal. D, C-103 838
103. **Nye, Sherman R.**, Chicopee Falls, Mass. Finger truss. Gal. D, C-103 838
104. **O'Connor, E. L., Company**, Chicago. Extension shoe. Gal. D, D-103 838
105. **Palmer, B. Frank**, Philadelphia. Artificial limbs. Gal. D, D-102 838
106. **Penfield, E. C., Company**, Philadelphia. Gal. D, D-101
- a Surgical appliances. 837
- b Trusses and supporters. 838
107. **Reed & Carnrick**, New York. Gal. D, D-99
- a Pharmaceutical preparations. 834
- b Food preparations. 835
108. **Reichardt, F., Alfred & Co.**, New York. Surgical instruments and supplies. Gal. E, H-102 837
109. **Ritter, Frank**, Dental Manufacturing Company, Rochester, N. Y. Dental chairs and cases. Gal. E, I-101 839
110. **Roy, F., St. Omer**, N. Y. Surgical instruments and apparatus. Gal. E, G-102 837
111. **Sapler, Hannah G.**, New York. Abdominal belt. Gal. F-U-103 837
112. **Seabury & Johnson**, New York. Medical, surgical and antiseptic specialties. Gal. E, K-103 837
113. **Sharp & Dohme**, Baltimore, Md. Pharmaceutical preparations. Gal. D, D-96 834
114. **Sharp & Smith**, Chicago. Surgical instruments. Gal. E, F-103 837
115. **Standard Homœopathic Globule Manufactory**, New York. Globules, disks, etc. Gal. D, F-94 834
116. **Stearns, Frederick & Co.**, Detroit, Mich. Pharmaceutical preparations, toilet articles, etc. Gal. D, E-98 834
117. **Storrs Air Pad Truss Company**, Chicago. Air pads, supporters, etc. Gal. D, D-102 838
118. **Thomsen's Extract of Malt Company**, Chicago. Extract of malt. Gal. D, F-98 835
119. **Tilden Company**, The, New Lebanon, N. Y. Pharmaceutical preparations. Gal. D, E-94 834
120. **Tracy, Edward A.**, South Boston, Mass. Gal. E, H-102
- a Surgical splints. 837
- b Surgical jackets. 838
121. **Truax, Chas., Greene & Co.**, Chicago. Surgical instruments and appliances. Gal. E, F-103 837
122. **Upjohn Pill & Granule Co.**, Kalamazoo, Mich. Pills and granules. Gal. D, F-99 834
123. **Warner, Wm. R., & Co.**, Philadelphia. Pharmaceutical preparations. Gal. D, D-101 834
124. **Western Leather Manufacturing Company**, Chicago. Medicine cases, etc. Gal. E, I-102 837
125. **White, F. G.**, Chicago. Dentistry. Gal. E, H-101 839
126. **White, S. S.**, Dental Manufacturing Company, Philadelphia. Dental supplies. Gal. E, K-101 839
127. **Winkley Artificial Limb Company**, Minneapolis, Minn. Artificial limbs. Gal. D, D-103 833
128. **Wyeth, John & Bro.**, Philadelphia. Pharmaceutical and medicinal preparations. Gal. D, D-94 834
129. **Zeilin, J. H., & Co.**, Philadelphia. Pharmaceutical preparations. Gal. D, E-98 834

GROUP 149.

Primary, Secondary and Superior Education.

130. **Air Brush Manufacturing Company**, Rockford, Ill. Air brush and paintings produced with it. Gal. E, K-103 846
131. **Alliance Israelite Universelle**, New York. Gal. A, A-4
- a Common school products. 842
- b Technical and trade school products. 847
- c Agricultural school products. 852
132. **Amherst College**, Amherst, Mass. Photographs, plans, books, etc. Gal. K, O-6 851
133. **Arch-diocese of Chicago**. Educational exhibit. Gal. I, Z-28 841-844, 851

DEPARTMENT L.—LIBERAL ARTS.

134. **Art Institute of Chicago, Chicago.** Drawings, paintings, modeled work and statuary. Gal. A, F-19 846
135. **Art Students' League of New York, New York.** Students' work. Gal. A, F-15 846
136. **Atlanta University, Atlanta, Ga.** Industrial work, photographs, charts, etc. Gal. I, U-1 851
137. **Baltimore Manual Training School, Baltimore, Md.** Students' work. Gal. K, S-1 847, 851
138. **Beloit College, Beloit, Wis.** Photographs, history of college, etc. Gal. A, D-7 851
139. **Bowdoin College, Brunswick, Me.** Photographs, drawings and books. Gal. K, O-1 851
140. **Brothers of the Christian Schools.** Educational exhibit from European schools. Gal. I, Z-19 841-847, 851, 852
141. **Brown University, Providence, R. I.** Photographs, course of study, specimens of mechanical work, etc. Gal. K, R-1 851
142. **Bryn Mawr College, Bryn Mawr, Pa.** Photographs, publications, models, etc. Gal. K, G-7 851
143. **Bryn Mawr School, Baltimore, Md.** School work. Gal. I, V-7 851
144. **Carleton College, Northfield, Minn.** Stellar photography, charts, views, etc. Gal. A, A-7 851
145. **Central Church Mission, Chicago.** Kindergarten work. Gal. A-D-23 841
146. **Central Tennessee College, Nashville, Tenn.** Students' work. Gal. A, E-1 851
147. **Chautauqua System of Education, Buffalo, N. Y.** Publications, study papers, photographs, etc. Gal. K, L-1 851
148. **Chicago Manual Training School, Chicago.** Students' work. Gal. K, R-1 847, 851
149. **Chicago College of Pharmacy, Chicago.** Materia medica, apparatus, literature, etc. Gal. D, E-101 852
150. **Chicago Free Kindergarten Ass'n, Chicago.** Work of normal class and of children. Gal. A-D-23 841
151. **Cincinnati Technical School, Cincinnati.** Students' work. Gal. K, T-1 847
152. **Clafin University, Orangeburg, S. C.** Students' work. Gal. A, E-1 851
153. **Clark University, Atlanta, Ga.** Students' work. Gal. A, E-1 851
154. **Clark University, Worcester Mass.** University work. Gal. K, O-6 851
155. **Colgate University, Hamilton, N. Y.** Photographs, publications, etc. Gal. K, K-6 851
156. **Colorado State Agricultural College, Fort Collins, Col.** Drawings, manual and laboratory work, publications, etc. Gal. A, D-17 852
157. **Colorado State Normal School, Greeley, Col.** Manuscripts, charts, sloyd-work, etc. Gal. A, D-17 852
158. **Colorado State School of Mines, Golden, Col.** Drawings, publications, photographs, etc. Gal. A, D-17 852
159. **College of New Jersey, Princeton, N. J.** Books, manuscripts, models, photographs, etc. Gal. K, N-6 851
160. **Columbia College, New York.** Drawings, photographs, statistics, publications, etc. Gal. K, L-6 851
- 160a. **Deaf Schools.** Collective exhibits from schools at Colorado Springs, Col.; Hartford, Conn.; Washington, D. C.; Englewood, Ill.; Indianapolis, Ind.; Olathe, Kan.; Danville, Ky.; Frederick City, Md.; Northampton, Mass.; Flint, Mich.; Faribault, Minn.; Omaha, Neb.; Trenton, N. J.; Buffalo, N. Y.; Fordham, N. Y.; Washington Heights, N. Y. City; Cincinnati, O.; Edgewood Park, Pa.; Scranton, Pa.; Cedar Springs, S. C.; Delavan, Wis.; Salt Lake City, Utah. Gal. A-A-7 849
161. **De Pauw University, Greencastle, Ind.** Books, chart, etc. Gal. I, Z-7 851
162. **Drexel Institute of Arts, Science and Industry, Philadelphia.** Photographs, drawings, instruction, etc. Gal. K, I-6 843-847, 851, 852
- 162a. **Feeble-minded Schools.** Collective exhibits from schools at Glen Ellen, Cal.; Lakeville, Conn.; Lincoln, Ill.; Fort Wayne, Ind.; Glenwood, Ia.; Frankfort, Ky.; Font Hill, Md.; Barre, Mass.; Waverly, Mass.; Faribault, Minn.; Beatrice, Neb.; Vineland, N. J.; Syracuse, N. Y.; Columbus, O.; Elwyn, Pa.; Vancouver, Wash.; Orilla, Ont. Gal. A-A-7 849
163. **Franklin College, Franklin, Ind.** Manuscripts, apparatus, etc. Gal. I, Z-7 851
164. **Girls' Classical School, Indianapolis, Ind.** School work. Gal. I, Z-7 851
165. **Hahnemann Medical College and Hospital, Philadelphia.** Anatomical specimens, views of college, etc. Gal. I, Z-6 852
166. **Hamilton College, Clinton, N. Y.** Books, astronomical charts etc., Gal. K, K-6 851
167. **Hamline University, St. Paul, Minn.** Photographs, charts, written work, books, etc. Gal. A, A-7 851
168. **Hampton Normal and Agricultural Institute, Hampton, Va.** Educational and technological work of colored and Indian students. Gal. I, V-1 848, 852
169. **Harvard University, Cambridge, Mass.** Charts, photographs, publications, etc. Gal. K, O-6 851
170. **Indiana State Normal School, Valparaiso, Ind.** Maps, charts, etc. Gal. I, Z-7 852
171. **Indian Industrial School, Carlisle, Pa.** Work, photographs, courses of study, etc. Gal. I, Z-7 848
172. **Indiana University, Bloomington, Ind.** Maps, charts, books, etc. Gal. I, Z-7 851
173. **Iowa State Normal School, Cedar Falls, Ia.** School exhibit. Gal. A, D-17 852
174. **Jewish Training School, Chicago.** Shop-work, drawing, literary work, etc. Gal. K, U-1 847, 851
175. **John Hopkins University, Baltimore, Md.** Books, photographs, drawings, etc., illustrating its work. Gal. I, V-7 851
176. **Kane, Thos. & Co., Chicago.** School desks and slates. Gal. I, Z-17 842
177. **Kansas State Agricultural College, Manhattan, Kan.** Students' work, views, drawings, etc. Gal. A, A-17 852

UNITED STATES.

178. Kansas State Normal Sch'l, Emporia, Kan. Students' work. Gal. A, A-17 851
179. Maine State College, Orono, Me. Collections, analyses, shop-work, etc. Gal. K, O-1 851
180. Manual Training School of Washington University, St. Louis. Drawings and shop-work. Gal. K, Q-1 847, 851
181. Martin, Kate Byam, Chicago. Form and color work. Gal. A, D-21 846
182. Massachusetts Institute of Technology, Boston. Books, theses, apparatus, shop-work, etc. Gal. K, Q-6 852
183. Massachusetts Normal Art School. Boston. Students' work. Gal. A, F-19 and Gal. K, O-6 852
184. Massachusetts State Normal Schools. Collective exhibit from schools at Bridgewater, Framingham, Salem, Westfield, and Worcester. Gal. K, O-1 852
185. McClelland, Mary A., Albany. Educational invention, ocular demonstrator. Gal. F-U-103 842
186. Michigan State Normal School, Ypsilanti, Mich. Students' work. Gal. I-U-1 852
187. Michigan Agricultural College, Agricultural College, Mich. Products of fields, shops, laboratories, class-rooms, etc. Gal. I, U-6 852
188. Milton Bradley Company, Springfield, Mass. Gal. I, Z-13 841
a Kindergarten materials. 841
b Manual training materials. 844
c Scientific materials. 845
d Drawing materials. 846
189. Minneapolis School of Fine Arts, Minneapolis, Minn. Students' work. Gal. A, F-15 846
190. Minnesota State Normal Schools. Collective exhibit from schools at Mankato, Moorhead, St. Cloud, Winona. Gal. A, A-7 852
191. Mt. Holyoke College, South Hadley, Mass. History, photographs, students' work, etc. Gal. K, O-6 851
192. Museum of Fine Arts, Boston. Students' work. Gal. A, Truss, F-19 846
193. National Catholic Educational Exhibit. Educational exhibit. Gal. I, V-17-28 841, 847, 851, 852
194. National Eclectic Medical Association, Chicago. Books, diplomas, medicines, etc. Gal. I, Z-4 852
195. National Kindergarten Normal Institute, Washington, D. C. Children's work. Gal. A-D-23 841
196. Nebraska State University, Lincoln, Neb. Laboratory exhibit, views, charts, etc. Gal. A, D-8 851
197. New York College for the Training of Teachers, New York. Graduated course in manual training. Gal. K, M-6 852
198. New York State Normal Schools. Collective exhibit from schools at Cortland, Fredonia, Oneonta, Oswego, and Plattsburg. Gal. K, L-6 852
199. New York Trade Schools, New York. Students' work, courses of instruction, etc. Gal. K, U-1 847
200. Oberlin College, Oberlin, Ohio. Views, diagrams, books, etc. Gal. I, truss T-11 851
201. Ogontz School, Ogontz, Pa. Pictures, casts, specimens, schedules, etc. Gal. K, I-6 851
202. Ohio Normal University, Ada, O. Students' work. Gal. I, T-11 852
203. Ohio Wesleyan University, Delaware, Ohio. Students' work. Gal. I, Truss, T-11 851
204. Pennsylvania Academy of Fine Arts, Philadelphia. Students' work. Gal. A, F-11 846
205. Pennsylvania Museum and School of Industrial Art, Philadelphia. Students' work. Gal. A, F-11 846
206. Pennsylvania State College, State College, Pa. History, maps, apparatus, students' work, etc. Gal. K, F-8 851
207. Pennsylvania State Normal Schools. Collective exhibit from schools at Bloomsburg, Indiana, Kutztown, Slippery Rock and West Chester. Gal. K, E-6 852
208. Philadelphia School of Design for Women, Philadelphia. Students' work. Gal. A, Truss, F-11 846
209. Polytechnic Institute, Brooklyn, N. Y. Drawings, photographs, manuscripts, etc. Gal. K, L-1 851
210. Prang Educational Company, Boston. Models, text-books, drawings, materials, etc. Gal. A, E-8 846
211. Pratt Institute, Brooklyn, N. Y. Gal. K, E-1 843, 844
a Manual work. 843, 844
b Science teaching. 845
c Industrial and fine art. 846
d Technical and trade work. 847
e Literary work. 851
212. Purdue University, La Fayette, Ind. Shop-work, models, apparatus, theses, etc. Gal. I, Z-7 851
213. Rensselaer Polytechnic Institute, Troy, N. Y. Work of students and graduates. Gal. K, G-1 852
214. Ripley, Mrs. E. C., Hartford, Conn. Designs for wall paper. Gal. F, U-103 846
215. Ripon College, Ripon, Wis. Photographs, students' work, catalogues, etc. Gal. A, D-7 851
216. Rochester Athenæum & Mechanics' Institute, Rochester, N. Y. Drawings, paintings, modeling, etc. Gal. K, M-1 846
217. School of Fine Arts, Jacksonville, Ill. Students' work. Gal. A, F-15 846
218. School of Fine Arts, St. Louis. Students' work. Gal. A, F-19 846
219. School of Industrial Art and Technical Design for Women, New York. Gal. A, F-15 846
220. Smith College, Northampton, Mass. Pictures and pamphlets. Gal. K, O-6 851
221. South Dakota, State of. Educational exhibit. Gal. A, A-7 850
222. Spring Garden Institute, Philadelphia. Drawings, paintings, wood and metal work, etc. Gal. A, F-11 846, 847
223. St. John's College, Annapolis, Md. Students' work, photographs, catalogues, etc. Gal. I, V-7 851
224. State of Arkansas. Educational exhibit. Gal. A, Z-17 850
225. State of Colorado. Educational exhibit. Gal. A, D-17 850
226. State of Connecticut. Educational exhibit. Gal. K, U-6 850

DEPARTMENT L.—LIBERAL ARTS.

227. State of Florida. Educational exhibit. Gal. A, E-1 850
228. State of Indiana. Educational exhibit. Gal. I, Z-7 850
229. State of Iowa. Educational exhibit. Gal. A, D-17 850
230. State of Kansas. Educational exhibit. Gal. A, A-17 850
231. State of Kentucky. Educational exhibit. Gal. I, T-15 850
232. State of Maine. Educational exhibit. Gal. K, O-1 850
233. State of Maryland. Educational exhibit. Gal. I, V-7 850
234. State of Massachusetts. Educational exhibit. Gal. K, O-1 850
235. State of Michigan. Educational exhibit. Gal. I, U-1 850
236. State of Minnesota. Educational exhibit. Gal. A, A-7 850
237. State of Missouri. Educational exhibit. Gal. I, V-17 850
238. State of Montana. Educational exhibit. Gal. I, Z-10 850
239. State of Nebraska. Educational exhibit. Gal. A, D-11 850
240. State of New Hampshire. Educational exhibit. Gal. K, U-1 850
241. State of New Jersey. Educational exhibit. Gal. A, E-6 850
242. State of New York. Educational exhibit. Gal. K, L-6 850
243. State of North Dakota. Educational exhibit. Gal. I, Z-10 850
244. State of Ohio. Educational exhibit. Gal. I, T-11 850
245. State of Oregon. Educational exhibit. Gal. A, D-17 850
246. State of Pennsylvania. Educational exhibit. Gal. K, F-6 850
247. State of Rhode Island. Educational exhibit. Gal. K, R-1 850
248. State of West Virginia. Educational exhibit. Gal. K, E-1 850
249. Tadd, J. Liberty, Philadelphia. Industrial art and manual training. Gal. I, U-1 846, 847
250. Territory of Utah. Educational exhibit. Gal. A, A-7 850
251. Thayer & Chandler, Chicago. Air brush and paintings produced by ink eraser. Gal. E, L-103 846
252. Toledo Manual Training School, Toledo, Ohio. Shop-work exercises, sewing, drawings, photographs, etc. Gal. K, R-1 847, 851
253. Tufts College, Tufts College, Mass. Photographs, charts, etc. Gal. K, O-6 851
254. United States School Furniture Company. School furniture. Gal. I, Z-11 842
255. University of Michigan, Ann Arbor, Mich. Plans, photographs, publications, work, etc. Gal. K, R-6 851
256. University of Minnesota, Minneapolis, Minn. Photographs, charts, students' work, etc. Gal. A, A-7 851
257. University of the South, Sewanee, Tenn. Photographs of buildings. Gal. I, W-1 851
258. University of Oregon, Eugene, Ore. Catalogues, photographs, diagrams, etc. Gal. A, D-17 851
259. University of Pennsylvania, Philadelphia. Maps, publications, collections, etc. Gal. K, H-8 851
260. University of the City of New York, New York. Maps, apparatus, models, photographs, etc. Gal. K, K-8 851
261. University of the State of Missouri, Columbia, Mo. Students' work. Gal. I, V-17 851
262. University of the State of New York. System of incorporation and supervision. Gal. K, K-6 851
263. Vassar College, Poughkeepsie, N. Y. Photographs, books, methods, etc. Gal. K, K-6 851
264. Way, Miss Leota, Harris, Col. Designs for wall paper. Gal. F-U-103 846
265. Wellesley College, Wellesley, Mass. Photographs, charts, etc. Gal. K, O-6 851
266. Western University of Pennsylvania, Allegheny, Pa. Photographs and publications. Gal. K, H-8 851
268. Wilberforce University, Wilberforce, Ohio. Model of university building containing literary and industrial exhibit. Gal. I, Truss, T-11 851
269. Willamette University, Salem, Ore. Students' work. Gal. A, D-17 851
270. Williams College, Williamstown, Mass. Photographs, books, instruments, etc. Gal. K, O-6 851
271. Wisconsin, State of. Educational exhibit. Gal. A, D-7 850
272. Wisconsin State Normal Schools. Collective exhibit from schools at Milwaukee, Oshkosh, Platteville, River Falls and Whitewater. Gal. A, D-7 852
273. Wisconsin State University, Madison, Wis. Work of students and graduates, photographs, etc. Gal. A, D-7 851
274. Woman's Art School of Cooper Union, New York. Students' work. Gal. A, Truss, F-11 846
275. Woman's College of Baltimore, Baltimore, Md. Art collection, chemical preparations, models, views, etc. Gal. I, V-7 851
276. Woman's Medical College of Pennsylvania, Philadelphia. Photographs, etc. Gal. I, Z-8 852
277. Yale University, New Haven, Conn. Maps, photographs, books, models, etc. Gal. K, U-6 851

GROUP 150.

Literature, Books, Libraries, Journalism.

278. Albert, Scott, & Co., Chicago. School books. Gal. E, D-108 855
279. American Bank Note Company, New York. Bank note engraving and lithographing. Gal. E, N-108 854
280. American Lithographic Company, New York. Art and commercial lithographs. Gal. E, M-105 854
281. Appleton, Daniel & Co., New York. Books. Gal. D, D-108 854
282. Bardeen, C. W., Syracuse, N. Y. School publications, maps, supplies, etc. Gal. E, K-108 855
283. Barrie, George, Philadelphia. Books and engravings. Gal. E, G-108 854
284. Betz, Carl, Kansas City, Mo. Gymnastic manuals. Gal. E, I-108 855

UNITED STATES.

285. Bonaventure, E. F., New York. Books, bindings, manuscripts, etc. Gal. E, K-109 854
286. Britannica Publishing Company, of Chicago. Encyclopædia. Gal. E, F-107 854
287. Brodix Publishing Co., Washington, D. C. Monthly magazine. Gal. F, U-103 854
288. Campbell, J. B., Chicago. Illustrated magazine and lithographs. Gal. D, C-108 857
289. Central School Supply House, Chicago. School supplies. Gal. E, F-105 855
290. Century Company, New York. Books, magazines, drawings, and materials for wood engraving. Gal. E, D-109 854
291. Colby & Co., New York. Historical charts. Gal. E, E-107 854
292. Columbian Art Engraving & Publishing Co., Philadelphia. Engravings and half-tone reproductions. Gal. E, L-106 854
293. Davis, F. A., Company, Philadelphia. Medical books, charts and periodicals. Gal. E, E-103 854
294. Dickert, Miss Clara, Chicago. Relief map of Palestine. Gal. F, U-103 864
295. Donham, G. M., Portland, Me. Maine state year book. Gal. E, I-108 862
296. Duprat & Co., New York. Books. Gal. E, E-108 854
297. Educational Publishing Company, Boston. Text-books. Gal. E, E-106 855
298. Estes & Lauriat, Boston. Books. Gal. E, K-109 854
299. Fairbank & Rolison, Chicago. School books. Gal. E, E-107 855
300. Fishel, Adler & Schwartz, New York. Engravings, etchings, etc. Gal. E, L-107 854
301. Flanagan, A., Chicago. Teachers' books, charts, maps, apparatus, etc. Gal. E, D-108 855
302. Freund, Wm., & Sons, Chicago. Copper plate and steel die work. Gal. E, L-108 854
303. Gallison & Hobron Co., Chicago. a Engravings. Gal. E, K-108 854
b Trade journals. 860
304. Ginn & Co., Boston. School books, charts, etc. Gal. E, E-107 855
305. Godey Publishing Company, New York. Magazines. Gal. E, H-109 854
306. Good Health Publishing Company, Battle Creek, Mich. Books, pamphlets, etc. Gal. E, E-104 854
307. Gugler Lithographic Company, Milwaukee, Wis. Lithographs. Gal. E, K-105 854
308. Harper Bros., New York. a Books, magazines, drawings, engravings, etc. Gal. E, E-109 854
b Illustrated papers. 857
309. Heath, D. C., & Co., Boston. School books, charts, maps, etc. Gal. E, E-106 855
310. Hoover, Joseph, Philadelphia. Lithographic fac-similes of pastels and water colors. Gal. E, K-105 854
311. Houghton, Mifflin & Co., Boston. Books and magazines. Gal. E, F-108 854
312. Illustrated American Publishing Company, New York. Art magazine. Gal. E, K-109 857
313. Interstate Publishing Company, Boston. School books, charts, etc. Gal. E, E-106 855
314. Judd, Orange, Company, New York. Books and periodicals. Gal. E, F-108 854
315. Keener, Wm. T., Chicago. Medical books. Gal. E, F-104 854
316. Kellogg, E. L., & Co., New York. School books, charts, maps, appliances, etc. Gal. E, D-108 855
317. Leach, Shewell & Sanborn, Boston. School books. Gal. E, E-107 855
318. Levytype Company, Philadelphia. Engravings, prints, etc. Gal. E, K-104 854
319. Lieber, B. Franklin, New York. Telegraphic cipher and manual. Gal. E, I-108 854
320. Lippincott, J. B., Company, Philadelphia. Books. Gal. E, E-108 854
321. Lovell, A., & Co., New York. School books, charts, etc. Gal. E, E-106 855
322. Manufacturers' Publishing Company, New York. Directory of manufacturers. Gal. E, E-108 860
323. Marks, Montague, New York. Methods of illustrating an art magazine. Gal. D, D-108 857
324. McClurg, A. C., & Co., Chicago. Books. Gal. E, F-108 854
325. Merck & Co., New York. Drug and medical trade journals. Gal. D, F-98 860
For exhibit see pages 220 and 221.
326. Merriam, G. & C. Co., Springfield, Mass. Webster's dictionaries. Gal. E, E-109 854
327. Morgan, W. J., & Co., Cleveland, Ohio. Lithograph. Gal. E, K-105 854
328. Moss Engraving Company, New York. Engravings. Gal. E, L-106 854
329. National Christian Science Co., Chicago. Books, pamphlets, tracts, etc. Gal. D, B-108 854
330. New England Publishing Company, Boston. Teachers' books and periodicals. Gal. E, E-107 855
331. North American Review, New York. Bound volumes, manuscripts, portraits, etc. Gal. D, B-108 854
332. Open Court Publishing Company, Chicago. Books, magazines and charts. Gal. E, C-108 854
333. Park Commissioners of Boston, Boston. Maps and photographs of park system. Gal. K, N-1 864
334. Phonographic Institute, Cincinnati. Phonographic text-books. Gal. E, I-108 855
335. Plimpton, Geo. A., New York. Historical collection of school books. Gal. E, E-107 855
336. Post, Alfred A., Boston. Volapük literature. Gal. E, I-108 458

DEPARTMENT L.—LIBERAL ARTS.

337. Prang, L., & Co., Boston. Chromo-lithographic art prints. Gal. E, K-108 854
338. Rand, McNally & Co., Chicago. Gal. E, M-108
a Books, printing, engraving, etc. 854
b Maps, globes, etc. 864
339. Revell, Fleming H., Company, Chicago. Books and periodicals. Gal. E, E-108 854
340. Salem Press Publishing & Printing Co., Salem, Mass. Books, charts, engravings. Gal. E, I-108 854
341. Schedler, Hermann, New York. *a* Lithographs. Gal. E, L-107 854
b Geographical globes. 864
342. Scholl, Bruno, Brooklyn, N. Y. Show posters. Gal. E, M-103 854
343. Scribner's, Charles, Sons, New York. Books, magazines, manuscripts, drawings, engravings, etc. Gal. E, G-108 854
344. Sheldon, Mrs. May F., Chicago. Books of travel. Gal. F, U-103 854
345. Shober & Carqueville Lithographing Co., Chicago. Lithographs. Gal. E, L-106 854
346. Silver, Burdett & Co., Boston. School books, charts, maps, etc. Gal. E, E-105 855
347. Stearns, Norman W., Middleboro, Mass. Samoan manuscripts. Gal. E, F-108 854
348. Tuchfarber, F., Company, Cincinnati. Show cards. Gal. E, L-105 854
349. University Publishing Company, New York. School text-books. Gal. E, E-105 855
350. Watson, Stephen M., Portland, Me. Magazine. Gal. E, I-108 854
351. Wells, Charles R., Syracuse, N. Y. System of penmanship. Gal. E, K-108 855
352. Western Bank Note & Engraving Co., Chicago. Steel plate and lithographic engravings. Gal. E, M-108 854
353. White, James T., & Co., New York. Cyclopædia of biography. Gal. E, I-108 854
354. Wilson, G. H., Boston. Musical publications. Gal. E, F-107 854
355. Wood, Wm., & Co., New York. Medical books. Gal. E, F-103 854
356. Zeese, A., & Co., Chicago. Process engravings, electrotypes, etc. Gal. E, K-104 854
- GROUP 151.**
Instruments of Precision, Experiment, Research and Photography.
Photographs.
357. Albertype Company, New York. Albertaines. Gal. E, O-103 871
358. Albright, Franc Luse, Albuquerque, New Mexico. Amateur photographs. Gal. F, U-103 871
359. Alexander, Louis, Brooklyn, N. Y. Optical goods. Gal. E, R-101 874
360. Alteneder, Theo., & Sons, Philadelphia. Drawing instruments. Gal. E, M-103 867
361. American Aristotype Company, Jamestown, N. Y. Photographs on aristo paper. Gal. E, Q-103 871
362. American Cash Register Company, Chicago. Cash register. Gal. E, R-101 865
363. Anthony, E. & H. T., & Co., New York. Photographic apparatus and supplies. Gal. E, P-103 871
 For exhibit see page 1050.
364. Appleton, J. M., Dayton, O. Photographs. Gal. E, N-104 871
365. Aune, Portland, Ore. Photographs. Gal. E, P-104 871
366. Baker's Art Gallery, Columbus, O. Photographs. Gal. E, N-105 871
367. Ball-Ball Company, Limited, Philadelphia. Drawing instruments. Gal. E, N-103 867
368. Bausch & Lomb Optical Co., Rochester, N. Y. Optical goods. Gal. E, P-101 874
369. Beehler, William H., Baltimore, Md. Solarometers. Gal. E, N-102 866
370. Blair Camera Company, Boston. Photographic apparatus. Gal. E, Q-103 871
371. Boston Cash Register Company, Northampton, Mass. Cash registers. Gal. E, S-102 865
372. Brashear, Jno. A., Allegheny, Pa. Telespectroscopes, telescopes, spectroscopes, etc. Gal. E, N-102 866
373. Breese, James L., New York. Carbon portraits and reproductions. Gal. E, N-108 871
374. Buff & Berger, Boston. *a* Surveyors' instruments. Gal. E, M-101 867
b Engineers' instruments. 868
375. Chicago Photogravure Company, Chicago. Photogravures. Gal. E, O-103 871
376. Clark, D. R., Chicago. Photographs. Gal. E, P-108 871
377. Commercial Adding Machine Company, St. Louis. Registering accountants. Gal. E, R-102 865
378. Conant, Hezekiah, Pawtucket, R. I. Clocks, etc. Gal. E, N-103 873
379. Cox, George C., New York. Photographs. Gal. E, O-107 871
380. Dana, Edw. C., New York. Photographs. Gal. E, O-108 871
381. Davis & Cook, Watertown, N. Y. Spirit levels. Gal. E, N-102 868
382. Davis & Sanford, New York. Photographs and photogravures. Gal. E, O-104 871
383. Dayton Autographic Register Company, Dayton, Ohio. Autographic triplicate registers. Gal. E, S-101 865
384. Eastman Kodak Company, Rochester, N. Y. Photographic goods. Gal. E, P-103 871
385. Eddy, Geo. M., & Co., Brooklyn, N. Y. Measuring tapes. Gal. E, R-101 865
386. Electro-Tint Engraving Company, Philadelphia. Half-tone engravings. Gal. E, P-103 871
387. Elliott, J. M., Columbus, Ohio. Photograph. Gal. E, N-104 871
388. Farnsworth, Emma J., Albany, N. Y. Amateur photographs. Gal. F, U-103 871

UNITED STATES.

389. Fauth & Co., Washington, D. C. Telescopes, astronomical apparatus, and geodetic instruments. Gal. E, truss M-101 866
390. Geneva Optical Company, Chicago. Optical goods. Gal. E, Q-102 874
391. Gramm, Carl T., Keokuk, Iowa. Photomicrographs. Gal. D truss 98 871
392. Gundlach Optical Company, Rochester, N. Y. Gal. E, O-102
- a* Telescopes. 866
- b* Photographic lenses. 871
- c* Microscope stands, etc. 874
393. Gurley, W. & L. E., Troy, N. Y. *a* Surveyors' instruments. Gal. E, truss M-101 867
- b* Civil engineers' instruments. 868
- For exhibit see page 642.
394. Gutekunst, The F., Company, Philadelphia. Photographic portraits and photo-mechanical printing. Gal. E, N-108 871
395. Hardy, F. A., & Co., Chicago. Optical instruments and apparatus for fitting the eyes. Gal. E, truss R-101 874
396. Harrison, Thomas, Chicago. Photographs. Gal. E, O-108 871
397. Hatton, M. F., Princeton, Ind. Photographs. Gal. E, P-106 871
398. Heimberger, C., & Son, New Albany, Ind. Photographs. Gal. E, P-104 871
399. Heinrich, H. H., New York. Chronometers. Gal. E, N-102 873
400. Inglis, James, Chicago. Bromide photographs. Gal. E, S-103 871
401. Jackson, W. H., Photograph & Publishing Co., Denver, Col. Photographic views of landscape. Gal. E, P-103 871
402. Keuffel & Esser, New York. Surveying instruments and drawing materials. Gal. E, M-103 867
403. Keystone Blue Paper Company, Philadelphia. Photographic and drawing papers. Gal. E, S-103 871
404. Keystone Dry Plate & Film Works, Philadelphia. Photographs, dry plates and specialties. Gal. E, R-103 871
405. Klein, George J., Chicago. Photographs. Gal. E, P-107 871
406. Landy, James, Cincinnati. Photographs. Gal. E, N-106 871
407. Levy, Max, Philadelphia. Engraved photographic screens. Gal. E, M-107 871
408. Long, Mrs. J. G., Chester, Pa. Amateur photographs. Gal. F, U-103 871
409. Manasse, L., Chicago. *a* Meteorological instruments. 287
- Gal. E, Q-101
- b* Optical goods. 874
410. McAllister, T. H., New York. Stereopticons, magic lanterns, etc. Gal. E, M-103 874
411. McIntosh Battery & Optical Co., Chicago. Gal. E, N-103
- a* Optical apparatus. 874
- b* Electrical apparatus, etc. 875
412. McMichael, H., Buffalo, N. Y. Photographic studies. Gal. E, N-107 871
413. Morrison, William M., Chicago. Photographs. Gal. E, P-107 871
414. National Cash Register Company, Dayton, Ohio. Cash registers. Gal. E, T-102 865
415. Northwestern University, Evanston, Ill. Barometers, chronograph, etc. Gal. E, N-101 872
416. Pach Bros., New York. Photographs. Gal. E, N-107 871
417. Photo-Materials Company, Rochester, N. Y. Photographic apparatus and supplies; portraits; etc. Gal. E, T-103 871
418. Place, Frank A., Chicago. Photographs and portraits. Gal. E, P-107 871
419. Queen & Co., Philadelphia. *a* Optical goods. Gal. E, Q-102 874
- b* Scientific apparatus for technical and educational work. Gal. E, truss N-101 867
420. Radam, Wm., New York. Microphotographs. Gal. E, O-104 871
421. Randall, H., Ann Arbor, Mich. Photographs. Gal. E, O-106 871
422. Rau, Wm. H., Philadelphia. Photographs and lantern slides. Gal. E, O-108 871
423. Rhodes, R. S., Chicago. Audiphones. Gal. E, M-103 876
424. Robinson, S. W., Columbus, Ohio. Velocity meter and templet odontograph. Gal. E, N-101 867
425. Rogers, William A., Waterville, Me. Standards of length; comparing and graduating machines. Gal. E, truss N-101 865
426. Root, W. J., Chicago. Photographs and portraits. Gal. E, P-108 871
427. Savage, C. R., Salt Lake City, Utah. Photographic views. Gal. E, P-104 871
428. Scholl, J. B., Chicago. Photographs. Gal. E, P-107 871
429. Schumacher, F. G., Los Angeles, Cal. Photographs. Gal. E, P-105 871
430. Scott, O. P., Chicago. Photographs. Gal. E, P-108 871
431. Slade, Elizabeth Almy, New York. Amateur photographs. Gal. F, U-103 871
432. Spencer Optical Manufacturing Company, New York. Optical goods. Gal. E, truss P-101 874
433. Standard Manufacturing Company, East Stroudsburg, Pa. Cash register. Gal. E, S-102 865
434. Steckel, Geo., Los Angeles, Cal. Platinotypes, and albumen and aristoprints. Gal. E, O-105 871
435. Stein & Rosch, Chicago. Photographs, portraits, genre and architectural views. Gal. E, N-108 871
436. Strauss, Julius C., St. Louis. Photographs. Gal. E, P-108 871
437. Warner & Swasey, Cleveland, O. Telescopes and chronograph. Gal. E, O-101 866
438. Willis & Clements, Philadelphia. Platinotype photographs. Gal. E, O-108 871
439. Woodbridge, Mrs. L. D., Chester, Pa. Amateur photographs. Gal. F, U-103 871
440. Yates, Arthur P., Syracuse, N. Y. Bromide print. Gal. E, P-103 871
441. Young & Sons, Philadelphia. *a* Surveying and mining instruments. Gal. E, truss M-101 867
- b* Engineering instruments. 868
442. Zentmayer, Joseph, Philadelphia. Microscopes. Gal. E, truss P-101 874

DEPARTMENT L.—LIBERAL ARTS.

GROUP 152.

Civil Engineering, Public Works, Constructive Architecture.

443. Allen, F. S., Joliet, Ill. School architecture. Gal. E, W-108 889
444. Berry, Washington, Angel Island, Cal. Sash balance and lock. Gal. E, S-109 889
445. Bodine Roofing Company, Mansfield, O. Wood fibre roofing, etc. Gal. E, Q-108 889
446. Byrkit-Hall Sheathing Lath Company, Chicago. Wooden sheathing-lath. Gal. E, S-109 889
447. Dormitzen, Mrs. Henry, New York. Window seats and platforms. Gal. F, U-103 889
448. Gardner Sash Balance Company. Sash balance. Gal. E, Q-109 889
449. Greene, Francis V., & Mary A., Philadelphia. Reversible window. Gal. E, R-109 889
450. Habel, Peter, Chicago. Reversible window. Gal. E, R-109 889
451. Landis, I. L., Lancaster, Pa. Metallic curbing. Gal. E, U-108 879
452. McMillan Sash Balance Company, Pittsburg, Pa. Sash balance and locks. Gal. E, Q-109 889
453. Nichols, Mrs. Minerva Parker, Philadelphia. Photographs of architectural designs. Gal. F, U-103 889
454. Page, Harvey L., Washington, D. C. Architectural photographs. Gal. E, Y-108 889
455. Poppert, George, Milwaukee, Wis. Blinds, doors and stairs. Gal. E, P-109 889
456. Rendle & Co., A. Edgcombe, Philadelphia. Glass roofing. Gal. E, V-108 889
457. Santi, Philip Louis, New York. Architectural plans. Gal. E, X-108 889
458. Schaeffer, F. W., Chicago. Cornice work. Gal. E, T-109 889
459. Sykes Iron & Steel Roofing Co., Niles, O. Pagoda house. Gal. E, T-108 889
460. Taylor, Samuel C., Chicago. Reversible window. Gal. E, R-109 889
461. Tracy, Mrs. Harriet Ruth, New York. Automatic elevator. Gal. F, U-103 889
462. Wall, Wm. E., Somerville, Mass. Graining. Gal. E, T-109 889
463. Willer Manufacturing Company, Milwaukee, Wis. Window blinds and screens. Gal. E, S-108 889
464. Wilson, Jas. G., New York. Shutters, blackboards, doors, etc. Gal. E, O-109 889
465. Wolfenden, Mrs. J. H., Highlands, Col. Apparatus for removing and replacing windows. Gal. F, U-103 889
467. Hess Postal Facility & Supply Co., Philadelphia. Postal boxes. Gal. E, T-108 893
468. State of New York, Comptroller's Office. Reports, documents, historical data, etc. Gal. E, T-108 890
469. State of New York, Insurance Department. Reports, documents, statistics, etc. Gal. E, T-108 890
470. State of New York, Treasurer's Department. Documents, statistics, reports, etc. Gal. E, U-108 890
471. Stoner, Mrs. James M., Denver, Col. Mail box. Gal. F, U-103 893
472. United States Mailing Case Company, Boston. Mailing cases for liquids. Gal. E, N-105 893
473. United States Trade Mark Association, New York. Trade marks, literature and laws. Gal. E, U-107 892

GROUP 154.

Commerce, Trade and Banking.

474. Abbott Machine Company, Chicago. Check perforators, canceling machines, money changers, etc. Gal. E, T-106 898
475. American Vending Machine Company, New York. Vending machines. Gal. E, T-105 898
476. Cary, Jr., Mrs. James, Baltimore. Chart and stamp system at Young Women's Christian Ass'n. Gal. F, U-103 903
477. Durant, W. N., Milwaukee, Wis. Printing-press counters, turn-stiles, etc. Gal. E, T-107 898
478. Lamson Consolidated Store Service Company, Boston. Cash and parcel carriers, mailing cases, etc. Gal. E, T-103 898
479. Lamson Store Equipment Company, Boston. Registering measuring machines. Gal. E, T-105 898
480. Lightning Check Punch Company, Bridgeport, Conn. Check punches, etc. Gal. E, U-107 898
481. New York Life Insurance Company, New York. Diagrams, etc. Gal. E, T-108 902
- For exhibit see page 1007.
482. Standard Autograph Time Recorder Company, Boston. Time recorder. Gal. E, T-107 898

GROUP 156.

Social, Industrial and Co-operative Associations.

483. Grand Lodge of Good Templars of Illinois. Development of the order. Gal. E, V-109 917

GROUP 157.

Religious Organizations and Systems—Statistics and Publications.

484. American Bible Society, New York. Bibles, Testaments, and portions in various languages. Gal. D, A-101 922
485. American Humane Ass'n, Chicago, Ill. Work of the society in preventing cruelty to animals and children. Gal. E, V-106 927
486. American Peace Society, Boston. Books, treaties, diagrams, etc. Gal. D, A-18 924

GROUP 153.

Government and Law.

466. Cutler Manufacturing Company, Rochester, N. Y. Mail chutes and boxes. Gal. E, U-108 893

UNITED STATES.

487. **American Tract Society, New York.**
Evangelical publications, methods of Gospel work, etc. Gal. D, A-99 922
488. **Church of Christ. (Disciples.)** Development and progress. Gal. D, A-102 919
489. **Church of the United Brethren in Christ in the World.** Development and progress. Gal. D, C-102 919
490. **Concordia Publishing House, St. Louis.** Publications of the Lutheran church. Gal. E, E-104 922
491. **Congregational Denomination in America.** Development and progress. Gal. D, A-102 919
492. **Lutheran Church of America.** Church development. Gal. D, B-102 919
493. **Methodist Episcopal Church.** Development and progress. Gal. D, A-103 919
494. **National Christian Association.** Portraits, drawings, publications, etc. Gal. D, A-104 924
495. **National Temperance Society, New York.** Books, pamphlets, tracts and charts. Gal. D, A-104 924
496. **New Jerusalem Church of America.** Church work. Gal. D, B-102 919
497. **Norwegian Evangelical Lutheran Church of America.** Publications. Gal. D, B-102 919
498. **Presbyterian Church in the United States.** Development and progress. Gal. D, A-102 919
499. **Seventh Day Baptist Denomination.** Books, papers, photographs, etc. Gal. D, C-102 919
500. **Unitarian Church in the United States.** Books, charts, maps, etc. Gal. D, B-102 919
501. **United Society of Christian Endeavor.** Development and progress. Gal. D, A-98 924
502. **Universal Peace Union, Washington.** Books, arbitration rules, portraits, etc. Gal. D, A-98 924
503. **Young Men's Christian Association.** Association exhibit. Gal. D, A-102 924
- GROUP 158.**
Music and Musical Instruments—The Theatre.
504. **Albert, C. F., Philadelphia.**
a Violins, violas, etc. Sec. I, P-4 929
b Musical accessories. 936
505. **Albert, Eugene J., Philadelphia.**
a Violins, viola, violoncello, etc. Sec. I, P-4 929
b Violin tail-piece. 936
506. **Albert, John, Philadelphia.** Double bass viol. Sec. I, P-4 929
507. **Bacon, Francis, New York.** Pianos. Sec. I, U-3 930
508. **Banks, John W., Chicago.** Guitars. Sec. I, T-3 928
509. **Barckhoff, Carl, Church Organ Company, Salem, Ohio.** Pipe organ. (Music Hall.) 935
510. **Bauer, Julius, & Co., Chicago.** Pianos. Sec. I, R-8 930
511. **Behr Bros., Company, New York.** Pianos. Sec. I, P-8 930
512. **Bent, Geo. P., Chicago.**
a Pianos. Sec. I, P-6 930
b Reed organs. 935
513. **Boardman & Gray, Albany, N. Y.** Pianos. Sec. I, Truss, R-8 930
514. **Bohmann, Joseph, Chicago.**
a Mandolins, zithers, guitars, banjos. Sec. I, P-3 928
b Violins, violas, cellos. 929
515. **Brainard's, S., Sons Company, Chicago.** Sheet music, books, etc. Sec. I, W-7 926
516. **Bush & Gerts Piano Co., Chicago.** Pianos. Sec. I, U-8 930
517. **Carpenter, E. P., Company, Brattleboro, Vt.** Reed organs. Sec. I, T-5 925
518. **Chase, The A. B., Company, Norwalk, Ohio.** Pianos. Sec. I, U-9 930
519. **Chase Bros., Piano Company, Muskegon, Mich.** Pianos. Sec. I, N-7 930
520. **Chicago Cottage Organ Company, Chicago.**
a Pianos. Sec. I, P-4 930
b Reed organs. 935
For exhibit see pages 364 and 873.
521. **Chickering & Sons, Boston.** Pianos. Sec. I, N-2 930
For exhibit see page 368.
522. **Clark, A. B., Richmond, Ind.** Violins. Sec. I, Q-4 929
523. **Colby Piano Company, Erie, Pa.** Pianos. Sec. I, X-8 930
524. **Coleman, Harry, New York.** Brass musical instruments. Sec. I, P-3 933
525. **Columbian Organ & Piano Co., Grand Crossing, Ill.** Reed organs. Sec. I, T-3 935
526. **Conn, C. G., Elkhart, Ind.** Band instruments. Sec. I, Q-1 927-931-934
527. **Consolidated Manufacturing Company, Boston.** Pianos. Sec. I, T-6 930
528. **Dickinson Ivory Company, Centerbrook, Conn.** Piano keys, etc. Sec. I, R-6 930
529. **Ditson, Oliver, Company, Boston.** Sheet music and music books. Sec. I, W-8 926
530. **Dolge, Alfred and Son, New York.** Pianoforte materials. Sec. I, Y-8 930
531. **Edna Piano & Organ Co., Monroeville, Ohio.** Reed organs and materials. Sec. I, T-4 935
532. **Estey Organ Company, Brattleboro, Vt.** Reed organs. Sec. I, O-3 935
For exhibit see page 994.
533. **Estey Piano Company, New York.** Pianos. Sec. I, O-3 930
534. **Everett Piano Company, Boston.** Pianos. Sec. I, Truss, P-8 930
535. **Fischer, J. & C., New York.** Pianos. Sec. I, Truss, N-8 930
536. **Flechter, Victor S., New York.**
a Violins, violas, etc. Sec. I, Q-6 929
b Musical accessories. 936
537. **Foote, J. Howard, Chicago.**
a Guitars, mandolins, etc. Sec. I, Q-3 928
b Flutes. 931
c Cornets, horns, etc. 934
538. **Fort Wayne Organ Company, Fort Wayne, Ind.** Reed organs. Sec. I, S-6 935
539. **Friedrich, John, & Bro., New York.** Violins, violas, etc. Sec. I, R-6 929

DEPARTMENT L.—LIBERAL ARTS.

540. Fuller, Levi K., Brattleboro, Vt. Tuning forks. Sec. I, V-3 936
541. Gemunder, August, & Sons, New York. Violins, cellos, violas, guitars, etc. Sec. I, Q-6 929
542. Gerold, C. A., Chicago. Pianos. Sec. I, X-7 930
543. Hallet & Davis Piano Manufacturing Co., Boston. Pianos. Sec. I, O-2 930
544. Hardman, Peck & Co., New York. Pianos. Sec. I, N-5 930
545. Harrington, E. G., & Co., New York. Pianos. Sec. I, O-5 930
546. Hartman Bros. & Reinhard, New York. Guitars, zithers, mandolins etc. Sec. I, S-5 928
547. Haynes, John C., & Co., Boston. *a* Guitars, banjos, mandolins and zithers. Sec. I, S-1 928
b Violins. 929
548. Heskett, H. H., Minneapolis, Minn. Violins. Sec. I, R-5 929
549. Hinze, C., Chicago. Pianos. Sec. I, X-7 930
550. Ivers & Pond Piano Co., Boston. Pianos. Sec. I, W-8 930
551. Jacob Bros., New York. Pianos. Sec. I, T-7 930
552. Keller Bros. & Blight, Bridgeport, Conn. Pianos. Sec. I, U-5 930
553. Kimball, W. W., Company, Chicago. *a* Pianos. Sec. I, P-8 930
b Reed organs. 935
554. Kranich & Bach, New York. Pianos. Sec. I, N-8 930
555. Kreling, F. W. & Sons, San Francisco. Banjos and banjorines. Sec. I, R-6 928
556. Krell, Albert, Cincinnati. Violins, etc. Sec. I, P-5 929
557. Krell Piano Company, Cincinnati. Pianos. Sec. I, X-8 930
558. Lawrence Organ Manufacturing Company, Easton, Pa. Reed organs. Sec. I, T-6 935
559. Lehr, H., & Co., Easton, Pa. Reed organs. Sec. I, T-6 935
560. Lyon & Healy, Chicago. *a* Drums, cymbals, etc. Sec. I, R-3 927
b Guitars, banjos, zithers, etc. 928
c Violins, violoncellos, etc. 929
d Flageolets, fifes, etc. 931
e Pipe and reed organs. 935
f Musical accessories. 936
561. MacKenzie, J. A., Minneapolis, Minn. Piano-harps and harpells. Sec. I, S-1 928
562. Mannello, Angelo, New York. Mandolins and mandolas. Sec. I, T-3 928
563. Mason & Hamlin Organ and Piano Co., Boston. *a* Pianos. Sec. I, P-1 930
b Organs. 935
564. Mason & Risch, Worcester, Mass. Reed organs. Sec. I, U-1 935
- 564a. Mehlin Piano Co., Minneapolis, Minn. Pianos. Sec. I, O-6 930
565. Meneely, Clinton H., Bell Company, Troy, N. Y. Chime of bells. 927
(Central clock tower.)
566. Meyer, C. & Sons, Philadelphia. Pianos. Sec. I, T-7 930
567. Miller, Henry F., & Sons Piano Co., Boston. Pianos. Sec. I, V-6 930
568. National Music Company, Chicago. Sheet music, books, etc. Sec. I, W-7 926
569. Needham Piano & Organ Co., New York. *a* Pianos. Sec. I, Q-6 930
b Reed organs. 935
570. Nelson, H. C., Chicago. Banjos. Sec. I, T-3 928
571. Newman Bros., Chicago. Reed organs. Sec. I, S-6 935
572. Pepper, J. W., Philadelphia. Band instruments. Sec. I, P-1 927-928-933-934
573. Phonoharp Company, Boston. Phonoharps and zithers. Sec. I, R-1 928
574. Pick, Miss Libbie, Chicago. Music cabinet attachment. Gal. F, U-103 936
575. Reed, A., & Sons, Chicago. Pianos. Sec. I, O-7 930
576. Rice-Macy Piano Company, Chicago. Pianos. Sec. I, V-7 930
577. Schomacker Pianoforte Manufacturing Company, Philadelphia. Pianos. Sec. I, N-6 930
For exhibit see page 992.
578. Schubert Piano Company, New York. Pianos. Sec. I, U-7 930
579. Shaw Piano Company, Erie, Pa. Pianos. Sec. I, X-7 930
580. Shoninger, B., Company, New Haven, Conn. *a* Pianos. Sec. I, R-6 930
b Reed organs. 935
581. Sohmer & Co., New York. Pianos. Sec. I, Truss R-8 930
For exhibit see page 429.
582. Staples, Lucie, San Francisco. Piano-forte harmony instructor. Gal. F, U-103 926
583. Starr, James M., & Co., Richmond, Ind. Pianos. Sec. I, X-8 930
584. Stewart, S. S., Philadelphia. Banjos. Sec. I, S-4 928
585. Stieff, Charles M., Baltimore, Md. Pianos. Sec. I, O-4 930
586. Story & Clark Organ Co., Chicago. Reed organs. Sec. I, F-6 935
587. Strauch Bros., New York. Piano actions. Sec. I, S-6 930
588. Summy, Clayton F., Chicago. Music books, charts and music-education material. Sec. I, W-7 926
589. Tonk Manufacturing Company, Chicago. Piano stools, scarfs, music cabinets, etc. Sec. I, V-8 936
590. Toye, William H. R., Philadelphia. Mandolins, guitars, banjos, etc. Sec. I, T-3 928
591. Trenton Iron Co., Trenton, N. J. Music wire. Sec. I, S-6 930
592. Vanduzen & Tift Co., Cincinnati, O. Chime of bells. (S. E. Bell Tower, Machinery Hall) 927
593. Vose & Sons Piano Co., Boston. Pianos. Sec. I, V-8 930
594. Waterloo Organ Co., Waterloo, N. Y. *a* Pianos. Sec. I, Y-8 930
b Reed organs. 935
595. Wegman & Co., Auburn, N. Y. Pianos. Sec. I, X-6 930

UNITED STATES.

596. Wessell, Nickel & Gross, New York.
Piano actions and parts. Sec. I, T-5 930
597. Western Cottage Organ Company,
Ottawa, Ill. Reed organs. Sec. I, T-6 935

598. Wildman, L. P., Danbury, Conn.
Violins. Sec. I, R-5 929
599. Zimmermann, C.F., Company, Dolge-
ville, N. Y. Autoharps. Sec. I, R-1 928

BUREAU OF CHARITIES AND CORRECTION.

Exhibits Installed in Section F of Anthropological Building.

The classification of this bureau of the Department of Liberal Arts is divided into six divisions, as follows:

- A—The care and treatment of the mentally defective.
- B—The care and treatment of the sick and injured.
- C—The care and treatment of dependent and delinquent children.
- D—The care and treatment of adult poor and paupers.
- E—The punishment and reformation of adult delinquents.
- F—Descriptive and statistical exhibits of the government and supervision, the capacity and population of the charitable and penal institutions of the States, and miscellaneous.

DIVISION A.

The Care and Treatment of the Mentally Defective.

1. Asylum for the Insane, Athens, O.
Architectural plans, photographs, literature and specimens of patients' work.
F-Y-14
2. Asylum for the Insane, Cleveland, O.
Architectural plans, photographs, statistics, specimens of patients' work, literature.
F-Y-14
3. Asylum for the Insane, Columbus, O.
Architectural plans, photographs, literature and specimens of patients' work.
F-Y-14
4. Asylum for the Insane, Toledo, O.
Architectural plans, photographs, literature and specimens of patients' work.
F-Y-14
5. Boston Lunatic Hospital, Boston.
Architectural plans, photographs, literature.
F-Y-14
6. Custodial Asylum for Feeble-Minded Women, Newark, N. J. Model and photographs.
F-Y-13
7. Eastern Ohio Insane Hospital. Topographical sketch and plans.
F-Y-14
8. Insane Asylum, Dayton, O. Plans, photographs, literature and specimens of patients' work.
F-Y-14
9. Longview Insane Asylum, Carthage, O. Plans, photographs, specimens of patients' work.
F-Y-14
10. Lynch M'fg Co., Madison, Wis.
Restraint appliances for the insane.
F-Y-13
11. McLean Hospital, Somerville, Mass.
a Model, plans, photographs, statistics and literature of hospital.
b Photographs, statistics and literature of training school for nurses to the insane.
F-Y-12
12. Maine Insane Hospital, Augusta, Me.
Architectural plans, photographs, statistics, literature.
F-Y-11

13. Michigan, State of. Charts, photographs and illustrations of the work of the institutions for the insane at Kalamazoo, Pontiac and Traverse City.
F-Y-12

14. Minnesota Hospital for the Insane, St. Peter, Minn. Photographs, uniforms, etc.
F-Y-11

15. Minnesota Second Hospital for Insane, Rochester, Minn. Photographs, model of tank for treatment of sewage, uniforms, etc.
F-Y-11

16. Northern Indiana Hospital for Insane, Logansport, Ind. Photographs, statistics, etc.
F-Y-11

17. Ohio Institution for Epileptic Insane.
Topographical sketch and plans.
F-Y-14

18. Utica State Hospital, Utica, N. Y.
Model of infirmary building, photographs, statistics, samples of patients' work.
F-Y-12

DIVISION B.

The Care and Treatment of the Sick and Injured.

19. Allen, Mary E., New York. Invalid chair.
F-W-15

20. Barnwell, Miss C. C., Baltimore.
Description of dispensary for plaster jackets.
F-W-9

21. Boston City Hospital, Boston. Architectural plans, photographs, literature, statistics, models of appliances of hospital and training school for nurses.
F-X-10

22. Cancer Hospital for Women, New York. Photographs and literature.
F-W-12

23. Dugot, Mrs. B. A., Mallet Creek, O.
Combined douche and bed pan.
F-X-15

24. Evening Dispensary for Women and Children, Baltimore. Descriptive charts.
F-W-9

DEPARTMENT L.—LIBERAL ARTS.

25. **Fitch Accident Hospital, Buffalo, N. Y.** Photographs and statistics. F-W-9
26. **Hale, Seth P. H., Williamsville, Mass.** Apparatus for moving invalids. F-W-15
27. **Hawley, Mary A., Dixon, Ill.** Invalid's table. F-X-15
28. **Instructive District Nursing Association, Boston.** Statistics and literature.
29. **Jewish Hospital Association, Philadelphia.** Photographs and statistics of hospital and home for aged and infirm Israelites. W-9
30. **Jefferson Medical College, Philadelphia.** Plans and drawings of college hospital. F-X
31. **Johns Hopkins Hospital, Baltimore.** Model of buildings, plans, photographs, etc., of hospital and nurses' training school. F-X-9
32. **Maine Eye and Ear Infirmary, Portland, Me.** Plans, photographs and statistics. F-W-9
33. **Massachusetts Emergency & Hygiene Ass'n, Boston.** Maps, photographs, appliances, literature. F-X-9
34. **Medical and Surgical Sanitarium, Battle Creek, Mich.** Plans, photographs, appliances. F-X-13
35. **Meggy, Jesse Hodgman, Philadelphia.** Bed lift. F-X-15
36. **New England Hospital for Women and Children, Boston.** Photographs, plans, statistics, literature. F-X-12
37. **New York Hospital Saturday and Sunday Ass'n, New York.** Statistics and appliances. F-X-9
38. **Reeves, Carrie V., Baltimore.** Head rest for beds. F-X-15
39. **Sharon Sanitarium, Boston.** Plans and photographs. F-W-9
40. **St. Luke's Hospital, South Bethlehem, Pa.** Drawings, photographs, statistics, literature. F-X-12
50. **Fitch Creche, Buffalo, N. Y.** Photographs, statistics, etc. F-W-13
51. **Goodwill Farm for Boys, East Fairfield, Me.** Photographs, statistics, reports. F-W-12
52. **Hampden County Children's Aid Ass'n, Springfield, Mass.** Photographs and reports. F-W-9
53. **Hebrew Orphan Asylum, New York.** Photographs, specimens of school work, uniforms, etc. F-W-10
54. **Hebrew Technical Institute, New York.** Photographs and specimens of school work. F-W-13
55. **Home for Friendless Children, Reading, Pa.** Photographs of building. F-W-10
56. **Illinois School of Agriculture and Manual Training School for Boys, Glenwood, Ill.** Photographs, statistics, specimens of school work. F-W-12
57. **Industrial School for Girls, Boston.** Reports. F-Y-9
58. **Little Mothers at Work and Little Mothers at Play, New York.** Photographs and statistics. F-W-13
59. **Louis Down-town Sabbath and Daily School, New York.** Photographs, statistics, specimens of school work. F-W-12
60. **Lyman School for Boys, Westboro, Mass.** Photographs and specimens of school work. F-W-12
61. **Maine Industrial School for Girls, Hallowell, Me.** Photographs, statistics, reports. F-W-12
62. **Massachusetts Infant Asylum, Boston.** Appliances, statistics, photographs. F-W-10
63. **Massachusetts Society for the Prevention of Cruelty to Children, Boston.** Reports and record blanks. F-Y-9
64. **Massachusetts State Board of Lunacy and Charity, Boston.** Photographs, appliances and statistics of Department of Outdoor Poor. F-W-9
65. **Massachusetts State Primary School, Palmer, Mass.** Photographs of buildings, statistics, etc. F-W-12
66. **Mayo School, Darlington, S. C.** Specimens of school work. F-W-11
67. **New York House of Refuge, Randall's Island, N. Y.** Drawings, maps, photographs, specimens of school work. F-V-13
68. **New York State Industrial School, Rochester, N. Y.** Photographs, charts, specimens of school work. F-W-10
69. **Ohio Girls' Industrial Home, Delaware, Ohio.** Plans and photographs of buildings, statistics, specimens of school work. F-W-12
70. **Pennsylvania Reform School, Morganza, Pa.** Photographs, statistics, specimens of school work, etc. F-W-12
71. **Presbyterian Orphanage, Philadelphia.** Photographs, statistics, specimens of school work. F-W-10
72. **South End Industrial School, Roxbury, Boston.** Photographs, descriptive charts, specimens of school work. F-W-11

DIVISION C.

The Care and Treatment of Dependent and Delinquent Children.

41. **Aid for Destitute Mothers and Infants, Boston.** Statistics and reports. F-W-9
42. **Baptist Orphanage, Angora, Philadelphia.** Photographs of buildings and inmates. F-W-10
43. **Boys' Home, Baltimore.** Statistics, reports. F-W-10
44. **Brooklyn Orphan Asylum Society, Brooklyn, N. Y.** Photographs and statistics. F-W-10
45. **Children's Aid Society, Boston.** Photographs, statistics, library. F-W-9
46. **Chicago News Record, Chicago.** Photographs, statistics and appliances of Fresh Air Fund. F-W-13
47. **Children's Aid Society, Chicago.** Statistics, photographs, reports, etc. F-W-9
48. **Children's Aid Society, Philadelphia.** Photographs, charts, clothing, etc. F-W-9
49. **Children's Home, Bangor, Me.** Statistics and reports. F-W-10

UNITED STATES.

73. State Industrial School for Girls, Lancaster, Mass. Photographs, statistics, etc. F-W-12
74. Trustees of the State Primary and Reform Schools of Massachusetts, Boston. Bound reports. F-Y-9
75. Wernle Orphan Home, Richmond, Ind. Photographs and statistics. F-W-10
76. Young Girls' Home, St. Paul, Minn. Photographs, statistics, etc. F-W-12

DIVISION D.

The Care and Treatment of Adult Poor and Paupers.

77. Associated Charities, Boston. Literature and record blanks. F-T-10
78. Associated Charities, Cincinnati. Literature and record blanks. F-T-10
79. Associated Charities, Fall River, Mass. Literature. F-T-10
80. Associated Charities, Newburgh, N. Y. Literature. F-T-10
81. Associated Charities, Newtonville, Mass. Literature. F-T-10
82. Associated Charities, Wilmington, Del. Literature and record blanks. F-T-10
83. Bethel Associated Charities, Cleveland, O. Literature and record blanks. F-T-10
84. Boston Provident Association, Boston. Literature. F-T-10
85. Bureau of Labor and Charities, Syracuse, N. Y. Literature. F-T-10
86. Charity Organization Society, Baltimore, Md. Literature and record blanks. F-T-10
87. Charity Organization Society, Buffalo, N. Y. Literature and record blanks. F-T-10
88. Charity Organization Society, Burlington, Iowa. Literature and record blanks. F-T-10
89. Charity Organization Society, Indianapolis, Ind. Literature and record blanks. F-T-10
90. Charity Organization Society, Newport, R. I. Literature and record blanks. F-T-10
91. Charity Organization Society, New York City. Literature, record blanks and plans of United Charities building. F-T-10
92. Chicago Relief and Aid Society, Chicago. Literature, record blanks, statistics. F-T-10
93. City Almshouse, Baltimore. Charts, literature and photographs. F-T-10
94. City Mission, Lawrence, Mass. Literature. F-T-10
95. German Evangelical Home, Brooklyn, N. Y. Literature, plans and statistics. F-T-10
96. German Old People's Home, Chicago. Report and photographs. F-T-10
97. German Society of Chicago, Chicago. Literature and record blanks. F-T-10
98. Home for the Friendless, Buffalo, N. Y. Statistics, photographs. F-T-10
99. Industrial Aid Society, Boston. Literature and record blanks. F-T-10

100. Library Bureau, Boston. Card-case for records of charitable societies. F-T-10
101. Massachusetts Board of Lunacy & Charity, Department of indoor Poor, Boston. Statistics and photographs. F-T-10
102. Massachusetts, State of. Model of Hospital Pavilion of the State Almshouse at Tewkesbury. F-T-10
103. Montefiore Home for Chronic Invalids, New York. Literature, photographs and statistics. F-T-10
104. New York Herald, New York City. Photographs, history and statistics of the Free Ice Charity. F-T-10
105. New York State Soldiers' and Sailors' Home. Topographical drawing and photographs of grounds and buildings. F-T-8
106. North End Mission, Boston. Literature, photographs, statistics. F-T-10
107. Ohio Working Home for the Blind. Photographs, charts, manufactured articles, etc. F-T-8
108. Old Women's Home, Reading, Pa. Photographs. F-T-10
109. Overseers of the Poor, Bellingham, Mass. Literature. F-T-10
110. Overseers of the Poor, Boston. Literature, record blanks, statistics. F-T-10
111. Overseers of the Poor, Brookline, Mass. Reports, photographs of almshouse, statistics. F-T-10
112. Overseers of the Poor, Somerville, Mass. Literature and record blanks. F-T-10
113. Overseers of the Poor, Springfield, Mass. Literature, statistics, photographs of almshouse, record blanks. F-T-10
114. Pennsylvania Industrial Home for Blind Women, Philadelphia. Photographs and specimens of inmates' work. F-T-8
115. Penny Provident, of the Charity Organization Society, Buffalo, N. Y. Statistics, appliances and record blanks. F-T-10
116. Relief Association, Plainfield, N. J. Literature.
117. Society of St. Vincent de Paul, Boston. Literature, record blanks, photographs and statistics. F-T-10
118. Temporary Home for Working Women, Boston. Reports and statistics. F-T-10
119. Union Relief Association, Springfield, Mass. Literature. F-T-10
120. United Hebrew Charities, New York. Literature and record blanks. F-T-10
121. Western House of Employment, Philadelphia. Photographs and statistics. F-T-10

DIVISION E.

The Punishment and Reformation of Adult Delinquents.

122. Champion Iron Co., Kenton, Ohio. Prison work, iron and steel cells, doors, locking device, window guards, etc. F-T-10

DEPARTMENT L.—LIBERAL ARTS.

123. Eastern State Penitentiary, Philadelphia. Model of building, photographs, statistics. F-W-13
124. Home for Fallen Women, Baltimore, Md. Reports. F-Y-9
125. Massachusetts Reformatory, Concord Junction, Mass. Drawings, statistics, products, literature. F-T-13
126. Minnesota State Prison, Stillwater, Minn. Photographs, plans, products. F-U-13
127. New York, State of. Model of electrical death chair. F-T-13
128. New York State Reformatory, Elmira, N. Y. Model of buildings, trades school exhibit. F-T-13
129. Ohio State Reformatory, Mansfield, Ohio. Drawings and plans. F-S-13
130. Pennsylvania Industrial Reformatory, Huntingdon, Pa. Model of buildings. F-R-13
131. Reformatory Prison for Women, So. Farmingham, Mass. Plans, photographs, statistics, products, literature, etc. F-T-13
132. Van Dorn Iron Works Co., Cleveland, O. Iron and steel jail complete, photographs. F-T-8
133. Western Penitentiary, Allegheny, Pa. Model of buildings. F-U-13

DIVISION F.

Descriptive and statistical exhibits of the government and supervision; the capacity and population of the charitable and penal institutions of the states, and miscellaneous.

134. California State. Statistics. F-Y-10
135. Colorado State. Map and charts. F-Y-10
136. Delaware State. Statistics. F-Y-10
137. Home Savings Society, Boston. Statistics and record blanks. F-T-10
138. Illinois State. Statistics, reports. F-Y-10
139. Indian Territory. Statistics. F-Y-10
140. Indiana Board of State Charities. Map, statistics and reports. F-Y-10
141. Iowa State. Map and statistics. F-Y-10
142. Maine State Statistics. F-Y-10
143. Maryland State. Map and statistics. F-Y-10
144. Massachusetts Board of Charities and Corrections. Scrap books. F-Y-10
145. Massachusetts Board of Lunacy and Charity. Reports, photographs, forms. F-Y-10
146. Massachusetts State. Maps, statistics and literature. F-Y-10
147. Michigan State Board of Correction and Charities. Map and statistics. F-Y-10
148. Minnesota State Board of Corrections and Charities. Map, statistics, reports. F-Y-10
149. National Conference of Charities and Correction. Proceedings. F-Y-9
150. New York State Board of Charities. Maps, statistics, reports. F-Y-9
151. New York State Charities Aid Association. Annual reports. F-Y-9
152. Ohio State. Map and statistics. F-Y-10
153. Pennsylvania State. Map and statistics. F-Y-10
154. Pioneer Co-operative Bank, Boston. Statistics and literature. F-T-10
155. Provident Savings Bank, Baltimore, Md. Statistics and literature. F-T-10
156. Wines, F. H., Springfield, Ill. Graphic charts of crime and pauperism in the states from 11th U. S. census. F-W-8
157. Workingmen's Loan Ass'n, Boston. Statistics and literature. F-T-10

First National Bank, Chicago, Ill.
For exhibit see page 227.

Phoenix Mutual Ins. Co., Hartford, Conn.
For exhibit see page 437.

Times Mirror Co., Los Angeles, Cal. Newspaper.
For exhibit see page 438.

F. G. Logan & Co., Los Angeles, Cal. Commission merchants.
For exhibit see page 508.

Evans-Snider-Buel Co., Chicago.
For exhibit see page 1118.

Acme Copying Co., Chicago, Ill. Portraits.
For exhibit see page 871.

Plankinton House, Milwaukee, Wis. Hotel.
For exhibit see page 682.

Louis Dejonge & Co., New York, N.Y. Surface coated papers.
For exhibit see page 425.

Mutual Life Ins. Co., New York.
For exhibit see page 491.

Metropolitan Ins. Co., New York, N. Y.
For exhibit, see page 1004.

Mitchell & Halbach Chicago, Ill. Decorators.
For exhibit, see page 1006.

London Guarantee Accident Co., Ltd., Chicago, Ill. Accident insurance.
For exhibit, see page 471.

Weser Bros., New York, N. Y. Pianos.
For exhibit, see page 363.

Emerson Piano Co., Boston, Mass. Pianos.
For exhibit, see page 427.

Lincoln Park Sanitarium, Chicago, Ill. Sanitarium.
For exhibit, see page 676.

Spierling & Linden, Chicago, Ill. Interior Decorations.
For exhibit, see page 1006.

Theo. M. Brown, Cazenovia, Minn. Patent Ledger.
For exhibit, see page 1010.

CATHOLIC EDUCATIONAL EXHIBIT. UNITED STATES.

SECTION I.

GROUP 147.

The archbishops of the United States, with Cardinal Gibbons of Baltimore presiding, at their meeting in Boston, July, 1890, issued an invitation to all in charge of Catholic educational institutions to unite in an educational exhibit at the Columbian Exposition. The preliminary arrangements were made by delegates at several meetings in Chicago and St. Louis. At the request of the archbishops Rt. Rev. J. C. Spaulding, D. D., Bishop of Peoria, consented to become president, and Brother Maurelian, F. S. C. (president of Christian Brothers College of Memphis, Tenn.), consented to act as secretary and manager of the Catholic educational exhibit.

Exhibits will be presented by normal schools, universities, colleges, art schools, schools of science and technology, high schools, academies, commercial schools, industrial and manual training schools, primary or kindergarten schools, orphanages, reformatories, schools for Indians, negroes, blind, deaf and dumb.

The exhibits include paintings, drawings and photographs of school buildings, chapels, churches, class-rooms, playgrounds, library, art, lecture and science halls, groups of teachers and pupils, music classes, sewing and embroidery classes, work-shops in industrial and training schools, etc.

The normal department presents normal manuals, sets of text-books, apparatus and appliances for instructing in all branches of literature, science and art, as also the work of teachers and normal students.

Work of pupils in plain and ornamental typewriting and shorthand, with illustrations whenever possible, will be exhibited in Christian doctrine, history of the United States, ancient and modern history, sacred history, church history, mythology, ancient and modern languages, compositions, essays, theses, debates, mathematics, astronomy, chemistry, physics, theory of music, logic and metaphysics, philosophy, hygiene, sanitation, meteorology, philology, political economy, civil government, mineralogy, geology, zoology, botany, horticulture, agriculture, forestry, conchology, ornithology, geography with maps and hypsometrical casts of cities and countries, commercial payers, bookkeeping, shorthand, specimen of painting, free-hand crayon, linear and mechanical drawings, drawings from nature and from the flat, perspective drawings, etc.; museums for object lessons, specimens from industrial schools of printing in colors and plain, electrotyping, tailoring, wood-carving, carpentry, shoe-making, iron-work, etc.; plain and fancy needle work, crochet, drawn-work, tapestry, lace-making, embroidery, painting on porcelain, wax-work, etc.

The colleges, academies and schools represented in the various classes of exhibits are in charge of the following orders, congregations and persons:

Benedictine Fathers, Capuchin Fathers, Fathers of the Holy Cross, Fathers of the Holy Ghost, Jesuit Fathers, Lazarist Fathers and Secular Clergy; Brothers of Mary, Brothers of the Sacred Heart, Brothers of the Holy Cross, Brothers of the Christian schools (Christian Brothers), Franciscan Brothers, Resurrectionist Brothers and Laymen.

Benedictine Sisters, Sisters of St. Agnes, Sisters of Charity (Emmitsburg, C. B. V. M.), and (Mt. St. Vincent) Sisters of Christian Charity, Dominican Sisters, Franciscan Sisters, Franciscan Sisters of Perpetual Adoration, Sisters of St. Francis (various congregations), Gray Nuns, Sisters of the Holy Name, Sisters of the Holy Cross, Sisters of the Holy Child, Sisters of Jesus and Mary, Sisters of the Immaculate Conception, Sisters of the Immaculate Heart of Mary, Sisters of Loretto, Sisters of Mercy, Sisters of Mt. Carmel, Sisters of Nazareth, Congregation de Notre Dame, School Sisters of Notre Dame, Polish Felecian Sisters, Presentation Nuns, Sisters of the Poor Handmaids of Jesus Christ, Sisters of Perpetual Adoration, Sisters of the Precious Blood, Sisters of Providence, Congregation of Divine Providence, Sisters of the Good Shepherd, Sisters of St. Joseph, Sisters of St. Nazianz, Sisters of Ursula Madams of the Sacred Heart, Sisters of the Sacred Heart of Mary, Ladies of the Sacred Heart, Ursuline Sisters, Visitation Nuns and Laywomen.

DIOCESAN EXHIBITS.

1. Brooklyn Diocese. Colleges of Brooklyn.

Academies of Brooklyn (4), Bayside (Whiteside P. O.), Far Rockaway and Sag Harbor.

Orphanage of Brooklyn.

Parish schools of Brooklyn (44), College Point, Flatbush and Flushing.

2. Buffalo, N. Y., Diocese. Academies and colleges of Buffalo (8), Albion, Allegany (2), Batavia, Corning, Dunkirk, Elmira, Hornellsville, Lockport, Owego, Niagara Falls, Rexville and Wellsville.

Orphanages of Buffalo (2), Corning, Dunkirk and West Seneca.

Parish schools of Buffalo (22), Albion, Alden, Allegheny, Batavia, Cheektowaga, Corning, Dunkirk (2), East Eden, Elmira, Gardenville, Hamburg, Hornellsville, Jamestown, Lancaster, Lockport (3), Niagara Falls, Olean, Pendleton, Salamanca, Springville, Suspension Bridge, Tonawanda and West Seneca.

3. Christian Brothers. Normal Institute of Amawalk, N. Y.; Ammendale, Md.; Glencoe, Mo., and Martinez, Cal.

Colleges of Ellicott City, Md.; Memphis, Tenn.; New York City (2); Oakland, Cal.; Philadelphia, Pa.; Portland, Ore.; San Francisco, Cal.; St. Louis, Mo.; St. Joseph, Mo.; and Washington, D. C.

Academies and high schools of Albany, N. Y.; Baltimore, Md.; Chicago, Ill.; New York City; Oakland, Cal.; Providence, R. I.; Sacramento, Cal.; St. Paul, Minn.; Troy, N. Y., and Westchester, N. Y.

Parish schools of Albany, N. Y. (3); Baltimore, Md. (3); Brooklyn, N. Y.; Buffalo, N. Y. (3); Burlington, Vt.; Chicopee, Mass.; Detroit, Mich.; Dover, N. H.; Jersey City, N. J.; Kansas City, Mo.; Manchester, N. H.; Melrose, N. Y.; Newark, N. J.; Newburg, N. Y., New York City (13); New Orleans, La.; Oakland, Cal. (3); Paterson, N. J.; Providence, R. I. (2); Philadelphia, Pa. (7); San Francisco (2); St. Joseph, Mo.; St. Louis, Mo. (5); Temescal, Cal.; Toledo, Ohio; Troy, N. Y.; Utica, N. Y.; Waltham, Mass.; West Oakland, Cal., and Yonkers, N. Y.

Industrial and training schools of Edgington, Pa.; Feehanville, Ill.; Utica, N. Y., and Westchester, N. Y.

Orphanages of Albany and Troy, N. Y.

4. Cleveland, Ohio, Diocese. Colleges and academies of Cleveland (2), Tiffin (2), Toledo, Nottingham (2), and Villa Marie, Pa.

Parish schools of Cleveland (25), Bellvue, Defiance, Monroeville and other cities.

5. Covington, Ky., Diocese. Academies of Covington (4), Lexington, Maysville, Newport (2) and White Sulphur.

Parish schools of Covington (7), Newport

(3), Alexandria, Ashland, Augusta, Bellevue, Carrollton, Cold Spring, Dayton, Frankfort and Paris.

6. Denver, Col., Diocese. Academies and Parish schools of Denver (6), Canon City, Leadville, Trinidad, etc.

7. Detroit, Mich., Diocese. Commercial school of Detroit.

Academies of Detroit and Monroe.

Parish schools of Detroit (2), Mt. Clemens and Shamokin, Pa. (Dio. H'bg).

8. Dubuque, Iowa, Diocese. Academies of Dubuque (2), Carroll, Cedar Rapids and Lyons.

Paris schools of Dubuque, Ackley, Breda, Browns, Carroll (2), Cascade (2), Clinton, Decorah, Dewitt, Dyersville, Farley, Festina, Fort Dodge, Haverhill, Key West, Lansing, Lawler, LeMars (2), Luxemburg, Milley, Mt. Carmel, New Vienna, Petersburg, Quigley, Remsen, St. Donatus and Stacyville.

9. Fort Wayne, Ind., Diocese. University of Notre Dame.

Academies of Fort Wayne, Crawfordsville, LaFayette, LaPorte, Notre Dame, Rensselaer, South Bend (2), Valparaiso and Winamac.

Orphanages of Fort Wayne and LaFayette.

Parish schools of Fort Wayne (6), Anderson, Avilla, Columbia City, Crawfordsville, Crown Point, Delphi, Decatur, Earl Park, Ege, Elkhart, Elwood, Fowler, Garrett City, Goshen, Hammond, Huntington, Kentland, Klaasville, Kokomo, LaFayette (4), Lagro, Logansport (3), Michigan City (2), Mishawaka, Monroeville, Muncie, New Haven, New Corydon, Otis, Peru, Plymouth, St. John, South Bend (3), Sheldon, Tipton, Union City, Valparaiso and Winamac.

10. Green Bay, Wis., Diocese. Parish schools of Green Bay (4), Ahnapee, Appleton (2), Antigo, Bay Settlement, Berlin, Brillion, Buchanan (Darby P. O.), Cate, Chilton, Clark's Mills, Clintonville, Coopers town, Delwick, DePere (4), Duck Creek, Francis Creek, Freedom, Grand Rapids, Holland, Hull (Steven's Point P. O.), Kaukauna, South Kaukauna, Kellnersville, Keshena, Kawaunee, Little Chute, Luxembourgh, Maple Grove, Marinette (2), Menasha (3), New London, New Franken, Oconto (2), Oshkosh, Portage, Reedsville, Shawano, Steven's Point (3), Stockbridge, St. Johns, Sturgeon Bay, Two Rivers, Wausau and Wrightstown.

11. LaCrosse, Wis., Diocese. Parish schools of LaCrosse (7), Ashland, Bayfield, Chippewa Falls (2), Eau Claire, Fountain City, Hudson, Marshfield, Neillsville, New Richmond, Prairie du Chein, Sauk City,

UNITED STATES.

- Sparta, Standfold, Superior City and West Superior.
Orphanage of LaCrosse.
- 12. Manchester, N. H., Diocese.** Academies of Manchester (2), and Nashua.
- 13. Milwaukee, Wis., Diocese.** Academies of Milwaukee, Racine and Sinsinawa Mound.
Parish schools of Milwaukee (9), Ashton P. O., Caledonia, Racine, Roxbury, St. Francis and St. George.
- 14. Natchez, Miss., Diocese.** College of Bay St. Louis.
Academies of Bay St. Louis, Chatawa, Greenville, Meridian, Scranton and Vicksburg (2).
Parish schools of Natchez (3), Biloxi, Jackson, Pass Christian, Tucker Vicksburg (2).
- 15. New Orleans Diocese.** Academies of New Orleans (8) and Donaldsonville.
Parish schools of New Orleans (11).
- 16. New York City Diocese.** Colleges of New York City (2), Amawalk.
Academies of High Schools of New York City (2).
Parish schools of New York City (40), Melrose, Newburg, Yonkers and other cities.
- 17. Philadelphia Diocese.** High Schools of Philadelphia and Chestnut Hill.
Parish schools of Philadelphia (55), Ashland, Bally, Bristol, Bryn Mawr, Chester (2), Conshohocken (2), Doylestown, Kellyville, Lehigh, Mauch Chunk, Norristown, Phoenixville, Port Carbon, Pottsville (2), Reading, St. Clair, Shenandoah and West Chester.
- 18. Pittsburg, Pa., Diocese.** Colleges of Pittsburg, Loretto and Summitt.
Academies of Pittsburg (2), Allegheny, Beatty P. O., Ebensburg, Greensburg and Loretto.
Parish schools of Pittsburg (22), Allegheny, Altoona, Blairsdale, Braddock, Butler (2), Cambria City, Copeland, Chartier, Connellsville, Dunbar, Gallatin, Homestead, Irwin, Johnstown (3), Latrobe, McKeesport, Millvale, Sharpsburg (2), Scottsdale, Tunnell Hill, Turtle Creek, Tyrone and Wilkesburg.
- 19. San Francisco Diocese.** Colleges of San Francisco (3), Oakland, San Jose (2), San Rafael and Santa Clara.
Academies of San Francisco (3), Alameda, Oakland (2), Redwood City, Rio Vista, Santa Clara, Santa Rosa and Ukiah.
Parish schools of San Francisco (14), Berkeley, N. Temescal and Oakland (8), San Leandro, San Rafael, Stockton (2) and Vallejo.
Orphanages of San Francisco (3).
Kindergarten of San Francisco.
Technical school of San Francisco.
- 20. Sioux Falls, S. D., Diocese.** Academies of Sioux Falls, Sturgis and Yankton.
Parish schools of Jefferson, Lead City, Millbank, Mitchell, Watertown and Yankton.
Indian schools of Fort Yates, Pine Ridge Agency, Rosebud and Stephan.
- 21. Benedictine Fathers.** College of Belmont, N. C. (2).
- 22. Benedictine Sisters.** Academy at Nauvoo, Ill.
Parish schools of Manchester, N. H.; Spokane, Wash., and Sturgis, S. D.
- 23. Charity, Sisters of.** Academies and Parish schools of Emmitsburg, Md. (2); LaSalle, Ill.; Memphis, Tenn.; Pine Bluff, Ark.; Richmond, Va.; Tulalip Reservation, Wash.; Washington, D. C.; Wichita, Kas.; and Baltimore, Md.
- 24. Divine Providence, Sisters of.** Academies of Castroville, Tex.; Palestine, Tex.; Temple, Tex.; Clarksville, Tex.; Jefferson, Tex., and Natchitoches, La.
Parish schools of Castroville, Tex.; San Antonio, Tex.; Galveston, Tex.; Columbus, Tex.; Ellinger, Tex.; Schulenberg, Tex.; High Hill, Tex.; Dubina, Tex.; Weimar, Tex.; Sedan, Tex.; New Braunfels, Tex.; Fredericksburg, Tex.; and Alexandria, La.
- 25. Dominican Sisters.** Academies of Memphis, Tenn.; New York City; Bloomington, Ill.; Faribault, Minn.; Washington, D. C.; Racine, Wis., and Sinsinawa Mound, Wis.
Parish schools of Minneapolis, Minn.; Clarksville, Tenn.; New York City; Muskegon, Mich.; Seattle, Wash.; Plattsmouth, Neb., and Kansas City, Mo.
- 26. Loretto, Sisters of.** Academies of Denver, Col. (2); Pueblo, Col.; Colorado Springs, Col.; Montgomery, Ala.; Osage Mission, Kas.; Cairo, Ill.; St. Johns P. O., Ky.; Louisville, Ky.; Marshall, Mo.; Springfield, Mo.; St. Louis, Mo.; Cape Girardeau, Mo.; Florissant, Mo.; Sante Fé, N. M.; El Paso, Tex.; Las Cruces, N. M., and Mora, N. M.
Indian schools of Bernalillo, N. M.
Parish schools of Elizabethtown, Ky.; Lebanon, Ky.; Kansas City, Mo.; St. Louis, Mo.; Las Vegas, N. M., and Socorro, N. M.
- 27. Mary, Brothers of.** Colleges of Dayton, Ohio; Honolulu, H. I., and San Antonio, Tex.
Parish schools of Baltimore, Md. (3); Chicago, Ill. (2); Cincinnati, Ohio (2); Cleveland, Ohio; Columbus, Ohio; Dayton, Ohio (3); Hilo, H. I.; New Orleans, La.; New York City (2); San Antonio, Tex.; Wailuka, H. I., and Winnipeg, Man.
- 28. Precious Blood, Sisters of.** Academy of St. Louis, Mo.
Parish schools of St. Louis, Mo. (2); Falls City, Neb.; Florissant, Mo.; Josephville, Mo.; Old Monroe, Mo.; Omaha, Neb. (2); Riviere Aux Vases, Mo.; St. Peter's, Mo.; Tipton, Mo., and Zell, Mo.
- 29. Providence, Sisters of.** Academies of St. Mary's, Vigo City, Ind.; Chelsea, Mass.; Chicago; E. Saginaw, Mich.; Fort Wayne, Ind.; Galesburg, Ill.; Greencastle, Ind.; Indianapolis, Ind.; Kansas City, Mo.; LaFayette, Ind.; Port Huron, Mich.; Saginaw City, Mich.; Terre Haute, Ind.; Vincennes, Ind.; and Washington, Ind.
Parish schools of Chicago (Central Park), Ill.; Columbus, Ind.; Connersville, Ind.; Delphus, Ind.; Evansville, Ind. (2); Fort Wayne, Ind.; Frenchtown, Ind.; Galesburg, Ill.; Hammond, Ind.; Indianapolis, Ind. (4); Jasper, Ind.; Jeffersonville, Ind.; LaFayette, Ind.; Lockport, Ill.; Loogootee, Ind.; Madison,

DEPARTMENT L.—LIBERAL ARTS.

Ind.; New Albany, Ind.; Omaha, Neb.; Peru, Ind.; Richmond, Ind.; Saginaw, City, Mich.; Savanna, Ill.; St. Mary's, Vigo City, Ind.; Seymour, Ind.; Terre Haute, Ind. (2); Valparaiso, Ind.; Vincennes, Ind.; Washington, Ind. (2), and Ypsilanti, Mich.

30. School Sisters of Notre Dame (East).

Academies of Govanstown and Baltimore, Md., and Fort Lee, N. J.

Parish schools of Baltimore, Md. (7); Boston, Mass.; Canton, Mass.; Catonsville, Md.; Malden, Mass.; Philadelphia, Pa. (3); Towson, Md., and Washington, D. C. (2).

31. School Sisters of Notre Dame (Mil).

Academies of Milwaukee, Wis.; Quincy, Ill., and Harbor Springs, Mich.

Orphanage of Quincy, Ill.

Parish schools of Milwaukee (9); Belleville, Ill.; Belvidere, Minn.; Champaign, Ill.; Escanaba, Mich.; Fort Madison, Ia.; Fort Wayne, Ind.; Grand Rapids, Mich. (2); Highland, Ill.; Logansport, Ind.; Louisville, Ky.; Peoria, Ill. (2); Quincy, Ill. (3); St. Charles, Mo.; St. Louis, Mo.; St. Paul, Minn.; Shakopee, Minn.; Sheboygan, Wis.; Washington, Mo.; Winona Minn., and Wabasha, Minn.

32. St. Francis, Sisters of (Old'bg). Academy of Oldenburg, Ind.

Parish schools of Aurora, Ind.; Cincinnati, Ohio (2); Dover, Ind.; Evansville, Ind.; Indianapolis, Ind. (2); Lawrenceburg, Ind.;

Morris, Ind.; New Albany, Ind.; New Alsace, Ind.; Oldenburg, Ind.; Rushville, Ind.; St. Louis, Mo.; St. Peter's, Ind.; St. Wendel, Ind.; Sedamsville, Ohio; Shelbyville, Ind., and Yorkville, Ind.

33. St. Joseph, Sisters. Academies of St. Genevieve, Mo.; St. Augustine, Fla.; Philadelphia, Pa.; Peoria, Ill., and Syracuse, N. Y.

Parish schools of Ishpeming, Mich.; St. Paul, Minn.; Albany, N. Y.; Amsterdam, N. Y.; Cohoes, N. Y.; Glens Falls, N. Y.; Hoosick Falls, N. Y.; Oswego, N. Y.; Schenectady, N. Y.; Syracuse, N. Y.; Troy, N. Y., and West Troy, N. Y.

34. The Sacred Heart, Brothers of. Colleges of Bay St. Louis, Miss.; Vicksburg, Miss., and Thibodaux, La.

Academies of Baton Rouge, La.; Mobile, Ala.; Nashua, N. H.; New Orleans, La.

Parish schools of Augusta, Ga.; Donaldsonville, La.; Indianapolis, Ind. (2); Manchester, N. H.; Mobile, Ala., and Natchez, Miss.

35. Ursuline Sisters. Academies of Alton, Ill.; Arcadia, Mo.; Collinsville, Ill.; Crescent Hill, Ky.; Decatur, Ill.; Grand Forks, S. D.; St. Louis, Mo., and Frontenac, Minn.

Parish schools of Alton, Ill. (2).

36. Visitation Sisters. Academy of Georgetown, W. Washington, D. C.

AUSTRIA.

GROUP 148.

1. Bauer, Dr. Moriz, Vienna. Vaccination supplies. 837
2. Broz, Albert, Graz. Surgical instruments. 837
3. Odelga, I., Vienna. Surgical instruments and apparatus. 837
4. Wiener, A., Vienna. "Pocket pharmacy." 834

GROUP 149.

5. Cuhel, Dr. Franz, Prague. Reckoning apparatus for children. 842
6. Genossenschaft, Fachschule fuer Drechsler at Vienna. Models and drawings. 847
7. Gerlach & Schenk, Vienna. Models for art instruction. 486
8. Hanusch, Thomas, Hostitz, Bohemia. Reckoning apparatus for children. 842
9. Lenoir & Forster, Vienna. Apparatus for teaching chemistry and physics. 845
10. Neubert, V., Prague. Models and appliances for teaching. 842
11. Roth, Adol, Taus, Bohemia. Appliances for teaching. 842

GROUP 150.

12. Dorn, Dr., Volkswirtschaftlicher Verlag, Vienna. Works on national economy. 854
13. Brandeis, Jacob B., Prague. Hebrew books. 854
14. Grieszelich, Ernst Ludwig, Vienna. Graphical illustration of foreign travel in the capitals of Europe. 864
15. Kaes, Simon, Vienna. "Fachzeitung fur Leder Industrie." 856
16. Lechner, R. (W. Mueller), Vienna. Topographical maps. 864
17. Ministerium des Innern K. K., Vienna. Statistical and graphical illustrations of the workmens' insurance system and of their unions in Austria. 863
18. Silas, Ferdinand, Vienna. Geographical maps. 864
19. Steinbrener, J., Winterberg, Bohemia. Prayer books. 854

GROUP 151.

20. Czichna C. A., Innsbruck. Photographs with Alpine photographs. 871
21. Denk, August, Vienna. Cellulographs. 871
22. Forster, I., Salzburg. Photographical backgrounds. 871
23. Hofmeier, Julius, Vienna. Photochemical plates. 871
24. Klicnik, Arnold, Bruenn, Moravia. Mechanical instruments 865
25. Landes, Verband der vereinigten Lur und Fremdenverkehrs-Vereine in Tyrol, Innsbruck. Collection of Alpine photographs. 871

26. Lechner R. (W. Mueller), Vienna. Photographic apparatus. 871
27. Lippe, Theo., G. von der, Vienna. Photographs. 871
28. Nemetz, Josef, Vienna. Instruments of precision. 874
29. Paulussen, Richard, Vienna. Photogravures. 871
30. Reichert, C., Vienna. Microscopical and optical instruments. 874
31. Ringhoffer, F., Smichew near Prague. Photos of machines of different kinds. 871
32. Verein zur Hebung des Fremdenverkehrs, Prague. Photographical views. 871
33. Wachtel, Bernhard, Vienna. Photographic cartoons and passepartouts. 871

GROUP 152.

34. Weber, von Ebenhof, Alfred, Bruenn, Moravia. Work on mountain hydraulics. 882

GROUP 153.

35. Wanka, Josef, Prague. Statistical illustrations of the postal service. 893
36. Wlcek, Wenzel, Graz. Letter boxes. 893

GROUP 157.

37. Vogl, Adolf, Innsbruck. Altar. (With Alpine photographs). 919

GROUP 158.

38. Augerer, Franz & Dotzauer, Wenzel, Vienna.
 - a Wind instruments. 931
 - b Stringed instruments. 928
39. Bruener, Franz, Schoenbach. Zithers. 928
40. Brunbauer, Philipp, & Sohn, Vienna. Harmonicas. Included in the collective exhibit of the Genossenschaft at Vienna. 935
41. Cerveny, V. F., & Soehne, Koenigsgaetz, Bohemia. Wind instruments. 931
42. Dehmal, Anton, Vienna. Wind instruments. 931
43. Fiehn, Heinrich, Vienna. Ocarinas. 932
44. Forster, Johann, Vienna. Harmonicas. 935
45. From, Karl, Vienna. Stringed instruments. 928
46. Fuchs, Daniel, Vienna. Wind instruments. 931
47. Gessner, J. B., Graslitz. Wind instruments. Included in the collective exhibit of the Graslitz manufacturers. 931
48. Graslitz manufacturers of musical instruments. Collective exhibit of musical instruments.
49. Haudeck, Karl, Vienna. Stringed instruments. 928

DEPARTMENT L.—LIBERAL ARTS.

- | | |
|---|--|
| <p>50. Huttli, A. K., Graslitz. Wind instruments. 931</p> <p>51. Kiendl, A., Vienna. Zithers. 928</p> <p>52. Kiendl, Karl, Vienna. Stringed instruments. 928</p> <p>53. Kirchner Gebrueder, Vienna. Musical instruments.</p> <p>54. Kirchner, Karl, Vienna. Stringed instruments. 928</p> <p>55. Klier, Andreas, Schoenbach. Musical instruments.</p> <p>56. Langhammer, J. E., Graslitz. Wind instruments. 931</p> <p>57. Loos, Karl, Schoenbach. Stringed instruments. 928</p> <p>58. Lutz, Josef, Schoenbach. Musical instruments.</p> <p>59. Mayer, Carl, Vienna. Mouthpieces for musical instruments. 936</p> <p>60. Meindl, J. B., Gratz. Wind instruments. 921</p> <p>61. Nowy, Michael, Vienna. Stringed instruments. 928</p> <p>62. Osmanek, A., Schoenbach. Musical instruments.</p> <p>63. Petz, Josef, Graz. Automatic organ. 935</p> <p>64. Pick, Josef Leopold, Vienna. Harmonicas. 935</p> | <p>65. Plocek, A., Chroustowitz, Bohemia. Muffler for musical instruments. 936</p> <p>66. Proksch, A., Reichenberg, Bohemia. Pianos. 930</p> <p>67. Roesel, Johann, Vienna. Wind instruments. 931</p> <p>68. Sandners, Sohn, Schoenbach, near Eger, Bohemia. Musical instruments.</p> <p>69. Schoenbach manufacturers of musical instruments. Collective exhibit of musical instruments.</p> <p>70. Schuster, Jos. Jgn., Kirchberg, near Graslitz. Bows for violin, violoncello and bass viol. 936</p> <p>71. Stecher, Karl, Vienna. Wind instruments. 931</p> <p>72. Stingl, Gebrueder, Vienna. Pianos. 930</p> <p>73. Strowasser, A. R., Graslitz. Machines for making stringed instruments. 936</p> <p>74. Stowasser's, W. Soehne, Graslitz. Wind instruments. Included in the collective exhibit of Graslitz. 931</p> <p>75. Thie, Wilhelm, Vienna. Harmonicas. 935</p> <p>76. Trimmel, Joh. N., Vienna. Harmonicas. 935</p> <p>77. Urbanek, Fr. A., Prague. Music books. 926</p> <p>78. Vienna Genossenschaft der Musik Instrumenten Erzanger. Collective exhibit</p> |
|---|--|

BELGIUM.

GROUP 147.

1. Administration du Bureau de Bienfaisance, Antwerp. Models and plans of homes for working classes. 827
2. Demany, Emile, Liege. Plans and designs of school-houses. 827
3. Franken-Willemaers, Edouard, Brussels.
 - a Plans of residences. 827
 - b Plans of hospitals. 832
4. Mouly, F. V., Brussels. Ventilators. 829
5. Société anonyme des Forges d'Aiseau, Aiseau. Sheet-iron building. 830
6. Société anonyme "La Couvinoise," Couvin. Heating and ventilating apparatus. 829

GROUP 148.

7. Sasserath, Alphonse, Einé, Liége. Dental apparatus. 839

GROUP 149.

8. Van Dooren, Louis, Brussels. Chart of penmanship. 842
9. Van Oye, Alb., & Co., Maldeghem. Fac-simile of school for basket making. 847

GROUP 150.

10. Godenne, Jacques, Liege. Various publications. 854
11. Lyon-Claesen, F., Brussels. Book-binding. 854
12. Van Dooren, Louis, Brussels. Advertising cards. 854

GROUP 151.

13. Administration Communale de Bruges, Bruges. Photographs of the city. 871

14. Administration Communale D'Ostende, Ostende. Photographs of the city. 871
15. Beernaert's Dry Plate Company, Gand. Photographic plates. 871
16. Belot, Ch., Brussels. Photographic apparatus. 871
17. Gerkinet-Ledent, A., Herstal. Water-level indicator. 868
18. Gêruzet frères, Brussels. Photographs on tiles, etc. 871
19. Sober, Edmond, frères, Brussels. Painted photographs. 871

GROUP 155.

20. Vanderperre, F. H., Brussels. Plans and photographs of exhibits at Expositions. 909

GROUP 158.

21. Berden, Franc & Co., Brussels. Grand and upright pianos. 930
22. Causard, Tellin, Grupont. Church bells. 927
23. Delflas, Camille, Brussels. Brass musical instruments. 933
24. Faes, Gustave, Antwerp. Violins and accessories. 929
25. Graffart, Julien, Liége. Music. 926
26. Senecaut, Pierre, Malines.
 - a Wood musical instruments. 931
 - b Brass musical instruments. 933
27. Vancauwelaert, frères & soeur, Brussels.
 - a Brass musical instruments. 933
 - b Accessories of musical instruments. 936

CANADA.

GROUP 147.

1. Peacock, Wm., Montreal. Cricket and baseball bats. 825
3. Rosebrugh, A. M., Toronto. Window ventilators. 829
4. Wilkinson, J., Peterboro, Ont. Sick-bed appliance. 832

GROUP 148.

5. Bonnar, Wm., Albion, Ont. Surgeon's satchel. 837
6. Harvard Chair Company, Toronto.
 - a Surgical chairs and cabinet. 837
 - b Dental chairs and cabinet. 839

GROUP 149.

7. Canada Office & School Furniture Co., Preston, Ont. School furniture. 842
8. Colleges, Convents and Catholic Schools of Canada. P. N. Bruchesi, Canon, Montreal, Que. Catholic educational exhibit from the universities, colleges, seminaries and normal schools of the Province of Quebec. 851
9. Specimens of work from the schools of the Brothers of the Christian Schools; St. Croix Congregation; Christian Brothers; Marists' Brothers; St. Gabriel Brothers; Brothers of the Sacred Heart; Brothers of St. Vincent de Paul; Catholic Commissioners of the City of Montreal; Sisters of Notre Dame; and various boarding and day schools in the Province of Quebec; also boarding and day schools in the Provinces of Ontario; Nova Scotia; New Brunswick; Prince Edwards Island; and the United States, and Convents of the Nuns of Quebec; Three Rivers; Stanstead, and Roberval; Sisters of Ste Anne, Lachine; Sisters of St. Croix, St. Laurent; Sisters of the Good Shepherd, Montreal. 842
10. Specimens of work from the Institution of the Deaf Mutes, under the direction of the Sisters of Providence, Montreal; Sisters of Jesus Marie of Sillery, Quebec; Sisters of the Good Shepherd of Quebec; Sisters of Charity, of Quebec; Sisters of l' Assomption, Nicolet; Sisters of the Presentation of St. Hyacinthe; and Grey Sisters of the Cross; also school of Mr. Frs. Liénard, St. Sabastien. 849
11. Specimens of work from the Modeling School of the city of Laurentides, Henri Vaillancourt, also Elementary and Modeling Schools of Montreal and the Province of Quebec. 846
12. Provincial Government of Northwest Territories, Regina. Educational system. 850
13. Provincial Government of Ontario, Toronto. Educational system. 850
14. Provincial Government of Quebec, Quebec. Educational system. 840

GROUP 150.

15. Biggar, E. B., Montreal. Textile journals. 856
16. Ernst, Charles F., New Hamburg, Ont. Old bible. 854
17. McClean, J. B., Publishing Company, Toronto. Trade journals. 856

GROUP 151.

18. Anderson Trading Company, Toronto. Cash registers. 865
19. Boorne & May, Calgary, N. W. T. Photographs. 871
20. Campbell & Son, Toronto. Photographer's scenic background. 871
21. Cochran, C. S., Hamilton, Ont. Photographs. 871
22. Grant, Henry, & Son, Montreal. Optical goods. 874
23. Magrath, C. A., Lethbridge, N. W. T. Photos of Lethbridge. 871
24. Notman, Wm., & Sons, Montreal. Photographs. 871
25. Smyth, Sydney A., Calgary, N. W. T. Photographs. 871
26. Stubbett, Jas. S., North Sydney, N. S. Views of Cape Breton. 871
27. Victoria Park Trustees, Truro, N. S. Photographs. 871
28. Williams, L. H., Montreal. Photographs. 871

GROUP 152.

29. Department of Public Works, Ottawa, Ont. Views and plans of public buildings. 889
30. Dominion Bridge Company, Montreal. Drawings and photographs of bridges. 880
31. Government of Nova Scotia, Halifax, N. S. Models of bridges. 880
32. Magrath, C. A., Lethbridge, N. W. T. Blue print of Galt hospital. 889
33. Meloche, F. Ed., Montreal. Architectural plans and drawings. 889

GROUP 153.

34. Beatty, W. J., Ottawa, Ont. Stamp albums. 893
35. Savard, Joseph L., Quebec. Stamp album. 893

GROUP 154.

36. Berry, A., Warden, Que. Drawer equalizer. 898
37. Canada Office & School Furnishing Company, Preston, Ont. Office and opera furniture. 898
38. McLean, F. E., Port Hastings, C. B. Old bank notes. 897

GROUP 158.

39. Barthlemes, A. A., & Co., Toronto, Ont. Piano actions and autoharps. 930
40. Close, J. A., Woodstock, Ont. Violin tail piece. 936

DEPARTMENT L.—LIBERAL ARTS.

41. Dominion Organ & Piano Co., Bowmanville, Ont. <i>a</i> Pianos. 930 <i>b</i> Organs. 935	45. Major, Geo., Cape Le Ronde, N. S. Violin. 929
42. Goderich Organ Company, Goderich Ont. Organs. 935	46. Newcombe, O., & Co., Toronto, Ont. Pianos. 930
43. Hugill, Joseph, Toronto, Ont. Violin and viola. 929	47. Ormond, Hugh, London, Ont. Violins. 929
44. Knaggs, Wm., Hamilton, Ont. Violins and viola. 929	48. Richer, Ovide A., Montreal, Que. Violins. 929
	49. Williams, R. S., & Son., Toronto, Ont. Pianos. 930

CEYLON.

GROUP 150.	GROUP 158.
1. Ceylon Government. <i>a</i> Books. 854 <i>b</i> School books. 855	4. Ceylon Commission. <i>a</i> Flute. 931 <i>b</i> Puppet shows, masks, wenawa, kinnarama. 938
2. Skeen, W. L. H., & Co. Photographs of Ceylon. 871	5. Colombo Museum. <i>a</i> Drum. 927 <i>b</i> Flageolet. 931 <i>c</i> Horn. 933
3. Ceylon Commission. Rattan bridge. 880	

DENMARK.

GROUP 148.	GROUP 149.	GROUP 150.	GROUP 158.
1. Albumen, Maltrose & Gluten Manufactory Copenhagen. Albumen, maltose and gluten.	2. Lange, Joh., Copenhagen. Parts of "Flora Danica." 852	6. Aamodt, Axel E., Copenhagen. Books. 854	14. Clement's, D. L., Succrs, Copenhagen. Books. 854
	3. Orlandi's Succrs, Copenhagen. Plaster casts of Thorwaldsen's works. Dept. H 846	7. Bagge, Fr. Copenhagen. Illustrated books. 854	15. Cordts, Carl, Copenhagen. Zoological and anatomical designs, lithographs. 854
	4. Society for Encouraging Manual Labor in Homes and Schools, Copenhagen. Model, drawings and utensils for a wood carving class. Dept. H 847	8. Bang, August, Copenhagen. Books. 854	16. Flyge, J. L., Copenhagen. Bound books. 854
	5. Tejsen, Miss Maja, Copenhagen. Drawing system for feeble minded children. Dept. H 849	9. Bernstein, Simon, Copenhagen. <i>a</i> Books. 854 <i>b</i> Trade-printing. 860	17. Gade, G. E. C, Copenhagen. Books. 854
		10. Boghandel, Gyldendalske, Copenhagen. Books. 854	18. Government of Denmark, Copenhagen. Books. 863
		11. Bojesen, Ernst, Copenhagen. Books. 854	19. Grabe, C. E., Copenhagen. Books. 854
		12. Bording, F. E. Copenhagen. Trade-printing. 860	20. Hagerups, H., Copenhagen. Books. 854
		13. Central Printing Office, Copenhagen. Books and illustrations. 854	21. Hausen, H. J., Copenhagen. "Zoologai Danica." 845
			22. Industriforeningen Society, Copenhagen. Books. 854
			23. Knudtyou, Fred G., Copenhagen. <i>a</i> Books. 854 <i>b</i> Trade-printing. 860
			24. Lehmann & Stage, Copenhagen. Books. 854
			25. Nielsen & Lydiche, Copenhagen. Books. 854
			26. Odense, Chr. Milo, Copenhagen. Books. 854
			27. Petersen, P., Copenhagen. <i>a</i> Books. 854 <i>b</i> Trade-printing. 860
			28. Petersen, Thorvald, Copenhagen. Bound books. 854
			29. Philipsen, P. G., Copenhagen. Books. 854
			30. Reitzel, C. A., Copenhagen. Books. 854

DENMARK—GERMANY.

31. Rom, N. C., Copenhagen.
a Books. 854
b Designs for home and school work. 855
c Maps. 864
32. Royal Danish Academy of Sciences, Copenhagen. Books. 585
33. Royal Danish Geographical Society, Copenhagen. Books.
34. Royal Society of Northern Antiquities, Copenhagen. Books. 863
35. Siersted, Th., Copenhagen. School maps. 864
36. Society for Promoting the Publication of Books, Copenhagen. Books and publications, papers from members; binding from special designs by Danish artists. 854
37. Staggemeier, A., Copenhagen. Apparatus for ascertaining geographical positions. 864
38. Thiele, H. H., Copenhagen. Books and chromo-typography. 854
39. Truelsen, Martins, Copenhagen.
a Books. 854
b Trade-printing. 860
40. Wimmer, L. F. A., Copenhagen. Works on northern archæology. 854
41. Winkel & Magnussen, Copenhagen. Books. 854
- GROUP 151.**
42. Christensen, C., Fredericia, Jutland. Photographs. 871
43. Jensen, Jucker, Copenhagen. Photographs. Dept. H 871
44. Knudsen, Cornelius, Copenhagen. Barometer. Dept. H 872
45. Lonborg, Chr., Copenhagen. Photographs. Dept. H 871
46. Müller's, Budtz, Succrs., Copenhagen. Photographic apparatus, photographs, etc. 871
47. Norholm, A., Copenhagen. Compasses. Dept. H 867
48. Schou, Albert, Copenhagen. Photographs of Thorvaldsen's works. Dept. H 871
49. Steen, Miss Mary, Copenhagen. Photographs of Royal Danish castles. Dept. H 871
50. Stolten & Simonson, Copenhagen. Photographs exhibited on aristo paper. Dept. H 871
51. Tyde, J. W., Copenhagen. Photographs. Dept. H 871
52. Zermekren, Johannes, Copenhagen. Calculating machine. Dept. H 865
- GROUP 154.**
53. Höckendorff, P., Copenhagen. Wafer stamps for office use. 898
54. Mattat, C. P., Copenhagen. Stamps for office use. Dept. H 898
55. Zinther, Harold J., Fredensborg, Sealand. Writing desk and chair. Dept. H 898
- GROUP 155.**
56. Royal Geographical Society, Copenhagen. The Society's periodical for four years. 907
- GROUP 157.**
57. Löffler, J. B., Copenhagen. Illustrated works on Danish church history. 919
- GROUP 158.**
58. Felumb, J. Emil, Copenhagen. Pianos. 930
59. Jensen, Tang, Copenhagen. Piano actions. 930

GERMANY.

GROUP 147.

1. Bad Langenschwalbach, Langenschwalbach. Thermal literature. Dept. A 829
2. Bad Kreuznach, Kreuznach. Thermal literature. Dept. A 829
3. Bad Nauheim, Nauheim. Thermal literature. Dept. G 829
4. Bad Neuhaus, Neuhaus. Thermal literature. Dept. A 829
5. Brehner'sche, Dr. Heilanstalt fuer Lungen Kranke, Goerbersdorf, Silesia. Thermal literature. Dept. A 829
6. Centralstelle fuer Sommerpflege in Deutschland, Berlin. Statistics, plans and models of sanitariums for children. 831
7. Dernen, Gebr., Cologne. Protective clothing for workmen. Dept. F 830
8. Gandré, Friedrich, Hildesheim. Models of disinfecting apparatus for hospitals. Dept. G 832
9. Grove, David, Berlin. Drawings of heating and ventilating plants for the German parliament building. Dept. G 829
10. Heilemann, Julius, Berlin. Two-story house of iron outside walls. 827
11. Homburg v. d. Hohe, Bad. Thermal literature. Dept. A 829
12. Horst, Chr., & V. Weltzien, Darmstadt. Drawings of the Clinical hospitals and of the insane asylum of Giessen. 832
13. Kgl. Bagerisches Bad, Kissingen. Thermal literature. Dept. A 829
14. Kgl. Preussisches Bad, Bertrich. Thermal literature. Dept. A 829
15. Kgl. Preussisches Bad, Ems. Thermal literature. Dept. A 829
16. Kgl. Preussisches Seebad, Norderney. Thermal literature. Dept. A 829
17. Koehler, Dr. med. Jean, Freiburg i-Baden. Combustible pocket telescoping spittoon. 829
18. Loeb, Bernhard, jun., Berlin. Respiratory apparatus. 830
19. Luftkurort & Weilbach, Weilbach-Baden. Thermal literature. Dept. A 829

DEPARTMENT L.—LIBERAL ARTS.

20. Meyer, Rud. Otto, Hamburg. Drawings of heating and ventilating plants in use at public institutions in Germany. Dept. G 829
21. Misdroy, Ostseebad, Misdroy. The sea-bath Misroy. Dept. A 829
22. Mueller, Uri, Ludwig, Coburg. Reproductions of diseases of the eye. 830
23. Schimmel, Oscar, & Co., Chemnitz. Plans of public disinfecting institutions. Dept. G 832
24. Schlangenbad, Reg. Bez., Wiesbaden. Thermal literature. Dept. A 829
25. Schuster, Carl, Berlin. School bench with folding plate and apparatus for physical culture. 842
26. Seebad Helgoland, Helgoland, Thermal literature. Dept. A 829
27. See & Soolbad, Kolberg. Thermal literature. Dept. A 829
28. Staedtische Kurverwaltung, Baden-Baden. Thermal literature. Dept. A 829
29. Soden am Taunus, Bad, Soden. Thermal literature. Dept. A 829
30. Vereinder Berliner, Volkskuechen, Berlin. Drawings and model of a charitable eating house, pamphlets. 826
31. Von Sierstorpf-Cramm'sches Bad, Driburg. Thermal literature. Dept. A. 829
32. Wolff, Felix, Berlin. Drawings of tenement houses. 827

GROUP 148.

33. Bauriedel, P. G., Nuremberg. Wafers. 834
34. Bock, Hilmar, Oberweissbach i-Th. Artificial human eyes. 838
35. Dannenberg, C. G. A., Hamburg. Surgical instruments and apparatus. Dept. H 837
36. Dewitt & Herz, Berlin. Surgical instruments, etc. Dept. H 837
37. Doerffel & Faerber, Berlin. Ophthalmologic and laryngoscopic instruments and apparatus. Dept. J 837
38. Ducehrssen, Dr. med. Alfred, Berlin. Anti-septic ligature. 837
39. Fischer, F. L., Freiburg i-Baden. Surgical instruments, cases for instruments. Dept. H 837
40. Fleischer T., Planen, Saxony. Textures for ligatures. 837
41. Halle, Bernhard, Steglitz near Berlin. Optical preparations for polarization. Dept. J 874
42. Hartmann, Paul, Heidenheim, Wurttemberg. Aseptic and anti-septic ligature. Dept. H 837
43. Hecht, J., Berlin. Ophthalmologic and laryngoscopic instruments. Dept. J 837
44. Jetter & Scheerer, Tuttlingen, Wurttemberg. Aseptic, surgical instruments. Dept. H 837
45. Joh. Lehmann, Berlin. Creosote-capsules. 834
46. Kaiserl, Normal, Aichungs, Kommission, Berlin. Complete outfit of a gauger's office. 847
47. Kohn, Emil, Karlsruhe. Platinum burners for medical use. Dept. H 837
48. Lahr, Eugen, Eschau, Bavaria. *a* Capsules filled with medical substances. 834
b Beef tea capsules. 835

49. Loeb, Bernhard, Jun., Berlin. Eye glasses. 838
50. Mueller, C., Berlin. Surgical instruments and appliances. Dept. H 837
51. Mueller, F. Ad. Soehne, Wiesbaden. *a* Pathological preparations, etc. 834
b Artificial eyes. Dept. H 838
52. Mueller, Kuller, Christoph, Lanscha i-Th. Artificial eyes. Dept. H 838
53. Mueller, Uri, Ludwig, Coburg. Artificial eyes. 838
54. Ploehn, R., Radebuel, Dresden. Ligature and dressing. Dept. H 837
55. Schmidt, Johann, Nuremberg. Wafers. 834
56. Schulze, Bruno C., Tlmenca i-Th. Artificial eyes. Dept. H 838
57. Thamm, J., Berlin. Surgical instruments and apparatus. Dept. H 837
58. Weinberg Hitzacker Sanitarium. Blood-producing beverage. 834
59. Werndt, K. R., Leipsic. Artificial teeth and sets of teeth. Dept. H 839
60. Windler, H., Berlin. Surgical instruments. Dept. H 837

GROUP 149.

61. Badischer Frauenverein, Karlsruhe. Plans and description of public institutions. 850
62. Badischer Kuns & Gewerbeverein, Karlsruhe. Publications, prints. 842
63. Berliner Hausfrauenverein, Berlin. Model of a school of cooking, manuals. 843
64. Collective, exhibit of the system of German instruction, Eisenach. Memorials, graphic representations, synopsis. 851
65. Duerfeld, Viktor, Nachf. Juhaber, Berlin-Oschatz. System of instruction for agriculture. 852
66. Elsner, Julius, Goldlauter-near-Suhl. Chemical and physical apparatus. Dept. J 845
67. Erster Dresdener Frauenbildungsverein, Dresden. System of instruction for the drawing of patterns for linen. 852
68. Fischbach, Friedrich, Wiesbaden. Lithographic plates. 469
69. Foerster, Auguste, Frll., Cassel. Utensils for children's schools of cooking. 843
70. Frauenbildungsverein, Breslau. System of instruction and works of the kindergarten. 84
71. Frauenbildungsverein, Eisenach. Description of the system of Froebel's school of sewing. 841
72. Frauenbildungsverein zur Foerderung der Erwerbsthaetigkeit, Breslau. System of instruction for schools of millinery and dressmaking, work of pupils. 843
73. Frauenarbeitsschule, Reutlingen. System of instruction in young women's school. 842
74. Froebel-Verein, Berlin. Collection of Froebel's means of instruction and occupation. 841
75. Gagel, Karl, Karlsruhe. Designs for art teaching. 846
76. Gebhardt, Paul, Berlin. Scientific physical apparatus for instruction. Dept. J 845
77. Gerber, August, Cologne. Plaster casts. 846

GERMANY.

78. Goetz, Hermann, Prof., Karlsruhe. Publications, reproductions of designs. 846
79. Grossherzogtl Saechsische Praefungsanstalt fuer Glasinstruments Tlmenau i-Th. Chemical apparatus. 845
80. Haushaltungs Schule fuer Bauern Toechter. Radolfzell, Baden. Compendium and reports. 843
81. Heerwart, Frl., Eisenach. Froebel's system of occupation. 841
82. Heyl, Frau, Charlottenburg. Utensils for children's schools of cooking. 843
83. Hendschel, M., Frankfort-on-the-Main. Sketch book. 846
84. Hoffman, Julius, Stuttgart. Designs for art industrial work. 846
85. Hoffmann & Ohnstein, Leipsic. Manuals for female hand work. 843
86. Kafemann, A. W., Danzig. Charts for intuitive instruction. 841
87. Kaiserl Normal Aichungs Kommission, Berlin. Scientific publications, etc. Dept. J 845
88. Kafferer, C. A. Frankfort-on-the-Main. Small school room with patent benches and tables. 841
89. Kern's, T.U.Verlag, Breslau. Works on natural science, illustrated cartoons and playbooks. 845
90. Kindergarten-Verein, Breslau. Model of a kindergarten. 841
91. Kinder Rettungsanstalt, Herbrechtingen-Wurtemberg. Handwork of children. 843
92. Kleinkinder Verpflegungs-Anstalt, Stuttgart. Photographs of the "Olga" crib. 841
93. Klemm's H. Verlag, Dresden. Literature for dressmakers. 843
94. Klose & Wollmerstaedt, Berlin. Xylographical works. 846
95. Kohl, Max, Chemnitz. Air-pumps and various other scientific apparatus. Dept. J 845
96. Kramer & Fuchs, Frankfort-on-the-Main. Complete sample book. 843
97. Krantz, Dr. F., Bonn. Collection of models of minerals, relief-maps. 845
98. Laeuger, Max, Karlsruhe. Graphic works. 846
99. Landois, Dr. H., Muenster i-W. Zoological preparations for instruction. 845
100. Lette-Verein, Berlin. Courses of instruction and work of pupils. 847
101. Magistracy, Breslau. System of instruction for handwork of the public schools of Breslau, works of pupils. 844
102. Magistracy, Munich. Drawings and penmanship from the Munich public schools. 850
103. Marbach, Frl., Eisenach. Portfolio with Froebel's system of occupation. 841
104. Nitzschke, Wilh., Stuttgart. Designs for art industry. 846
105. Sommer, Marcus, Sonneberg. Anatomical models. 845
106. Sophienshift, Weimar. Views of the institution, works of pupils, means of instruction. 844
107. Nebe, Wilhelm, Zerbst. Chemical and physical glass instruments. Dept J. 845
108. Vereinfuer Volkserziehung, Berlin. Educational life in the "Pestalozzi-Froebel House" represented in plastic groups. 841
109. Verein zur Erziehung Schulentlassener rAmer Maedchen, Berlin. Model of the institution. 851
110. Wachter, M., Freiburg i-Baden. Designs for caligraphy. 846
111. Ziegler, Friedrich, Freiburg i-B. Models of wax for scientific instruction. 845

GROUP 150.

112. Abel, Ambr., Leipsic. Works on medicine and botany. 854
113. Abel & Mueller, Leipsic. Illustrated works. 857
114. Ackermann, Th., Munich. Books. Dept. G 854
115. Albert, Jos., Munich. Illustrated works. 857
116. Amelang, C. F., Leipsic.
a Illustrated works, literature, anthologies. 854
b School books. 855
117. Amthor'sche Verlagsbuchhandlung, Leipsic. Tourists' guides. 862
118. Architekten und Ingenieur Verein, Hanover. Periodical of the association. Dept. G 856
119. Asher, A., & Co., Berlin. Scientific books, archæology. 854
120. Baedeker, Carl, Leipsic. Tourists' guides. 862
121. Baedeker, G. D., Essen.
a Geographical works. 854
b School books. 855
122. Baedeker, Julius, Leipsic.
a Literature. 854
b Illustrated works. 857
123. Baer, Joseph, & Co., Frankfort-on-the-Main. Printed works. 854
124. Barth, Joh. Ambr., Leipsic. Works on natural science. 854
125. Bassermann'sche Buchhandlung, Munich. Books. 854
126. Bassermann, Fr., Munich. Wilhelm Busch's humorous literature. 854
127. Baumgaertner'sche Buchhandlung, Leipsic. Books. Dept. G 854
128. Bergmann, J. F., Wiesbaden. Books. Dept. G 854
129. Berker-Merker, E., Heilbronn. Printed works. 854
130. Berg, L. F. W., Berlin. Trade journals. 856
131. Berhtold, Rud., & Co., Wiesbaden. Printed works. 854
132. Bertling, Theod, Danzig. Printed works. 854
133. Bielefeld's, Verlag, Karlsruhe. Books. Dept. G 854
134. Bleyl, T., Dresden. Works on architecture and art industry. 854
135. Bloem, Julius, Dresden. Trade journals and calendars. 856
136. Boas & Hesse, Berlin. Dictionary and synopsis of the human ear. 854
137. Bong & Co., Berlin. "Zurguten Stunde," Illustrated Family Journal, Illustrated Classic Library. 857

DEPARTMENT L.—LIBERAL ARTS.

138. Bong, Rich, Berlin. Illustrated periodical "Moderne Kunst." 857
139. Bormann, Edwin, Leipsic. Poetry in the Saxon dialect. 854
140. Boysen, C., Hamburg. Illustrated works of Allers, Haase, Mueller. 857
141. Boysen & Maasch, Hamburg. Works on architecture and industry. 854
142. Brandner, Otto, Dresden. Religious illustrated works. 857
143. Brandstetter, Friedrich, Leipsic. School books. 855
144. Braun & Schneider, Munich. "Fliegende Blätter." 857
145. Breitkopf & Haertel, Leipsic. Printed works. 854
146. Breymann & Huebener, Hamburg. Illustrated catalogues. 860
147. Brockhaus, F. A., Leipsic. Dictionary. 854
148. Bruening, Heinr. & Aug., Hanau. Cigar labels, etc. 860
149. Buchhandlung der Waisenhauses. Halle a-T. Printed works. 854
150. Buelz, Martin, Chemnitz. Printed works. 854
151. Chief Mayor's office, Cologne. Drawings: Street construction, canal construction, harbor plant, municipal elevated constructions, etc. Dept. G 863
152. Consée, O., Munich. Printed works. 845
153. Cottasche, J. G., Stuttgart. Books. 854
154. Craz & Gerlach, Freiberg, Saxony. Books. 854
155. Cronan, Rudolf, Leipsic. Sketches of America. 854
156. Duncker, Alex., Berlin. Political correspondence of Frederic the Great. 854
157. Diakonissen, Anstalt, Kaiserswerth. Religious literature. 854
158. Dieterichsche, Verlagsbuchhandlung. Goettingen. Works on classical philology. 854
159. Dreesen, Wilh., Flensburg. Illustrated books. 857
160. Drugulin, W., Leipsic. Ancient and oriental literature and prints. 854
161. Emele, Jul., Wiesloch. Works about bookkeeping, literature and horology. 854
162. Engelmann, Wilh., Leipsic. Literature of natural science. history and ethnology. 854
163. Ewertsche, N. G., Verlagsbuchhandlung, Marburg. Printed works. 854
164. Exportverein fuer das Koenigreich, Lachsen, Dresden. Manuals for exporters. 860
165. Felix, Arthur, Leipsic. Books. Dept. G 854
166. Fiedler, W., Leipsic. Order calendar for publishing houses. 860
167. Fleischmann, Julius, Gotha. Manual for exporters. Dept. G 860
168. Flemming, Karl, Glogau. a Juvenile literature. 854
b Maps. 864
169. Fliegel, F. F., & Co., Dresden. Posters; articles for publicity, etc. 860
170. Fock, Gustave, Leipsic. Printed works. 854
171. Francke, Bernh., Sangerhausen. Printed works. 854
172. Freyhoff, Ed., Oranienburg. Works on economy and agriculture. 854
173. Friebe, Hugo & Co., Leipsic-Reudnitz. Pamphlet on the bookbinders' trade. 856
174. Friederichsen, L. & Co., Hamburg. Land and marine charts. 864
175. Friedlaender, R., & Sohn, Berlin. Works on natural history and science. 854
176. Friedrich, Wilh., Leipsic. High class literature. 854
177. Friese & von Puttkamer, Dresden. Works on machinery. 854
178. Friese, Robert, Leipsic. Printed works. 854
179. Froebelhaus (A. Mueller), Dresden. Geographical map of the earth. 864
180. Fromman & Morian, Darmstadt. Geographical boards for instruction in natural history. 864
181. Gebhardt & Wilisch, Leipsic. School books, works on anatomy. 855
182. Geibel & Brockhaus, Leipsic. Juvenile literature. 854
183. Gerhardt, Wolfgang, Leipsic. Works for instruction in the Russian language, oriental literature. 854
184. Gensel, Gustav, Grima. Printed works. 854
185. Georgi, Karl, Berlin. Printed works. 864
186. Gesellschaft fuer Erdkunde, Berlin. Reproduction of "Merrator's" work. 864
187. Glaser, F. C., Berlin. Annals of trade and architecture. Dept. G 856
188. Goehre, H. M., Leipsic. Bookbinders' works. 856
189. Graebner, Gust, Leipsic. Printed works. 854
190. Graf & Sohn, Herm, Altenburg. Bookbinders' works. 856
191. Graefe, Lucas, & Sillem, Hamburg. Printed works. 854
192. Graser, Herm., Annaberg. Printed works. 854
193. Grottesche, G., Verlagbuchhandlung, Berlin. Illustrated works of classics and history. 857
194. Grumbach, C., Leipsic. Illustrated printing. 857
195. Gutbier, Adolf, Dresden. Printed works. 854
196. Haeder, Herm., Duisburg. Books. Dept. G 854
197. Haekner, Carl, Dresden. Printed works. 854
198. Haessel, H., Leipsic. High class literature. 854
199. Hahn'sche Buchhandlung, Hanover. Books. 854
200. Halle, W., Altona. Printed works. 854
201. Harrassowitz, Otto, Leipsic. Printed works. 854
202. Harwitz, Max, Berlin. Printed works. 854
203. Hedeler, G., Leipsic. Journal for exporters. 856
204. Heine's, T. T. Verlag, Berlin. Printed works. 854

GERMANY.

205. Hendel, Otto, Halle a-S. Printed works. 854
206. Henze's, A., Verlag, Leipsic-Neustadt. Geographical globes. 864
207. Herder'sche Verlagsbuchhandlung, Freiburg i-B. Printed works. 854
208. Hermann, H. S., Berlin. Chinese geographical map. 864
209. Herrcke & Lebeling, Stettin. School books for the English language. 855
210. Herrose's, R. Verlag, Wittenberg. Printed works. 854
211. Hessling & Spielmeyer, Berlin. Works on architecture. 854
212. Heymann, C., Berlin. Works on jurisprudence and political science. 854
Dept. G
213. Heymann & Schmidt, Berlin. Advertising cards and novelties. 860
214. Hiersemann, C. W., Leipsic. Literature of art and art industry, architecture, archæology and Americana. 854
215. Hinrichs'sche, T. C., Buchhandlung, Leipsic. Works on bibliography, theology and archæology. 854
216. Hinstorff'sche Hofbuchhandlung, Wismar. Works of Fritz Reuter, Gaedertz and Hr. Semler. 854
217. Hirt, Ferdinand & Sohn, Leipsic. School books. 855
218. Hirt, Ferdinand, Breslau. Illustrated works. 857
219. Hirt, Ferdinand & Sohn, Leipsic. Juvenile and pedagogical literature. 855
220. Hirzel, S., Leipsic. Grimm Bros. dictionary. works of Gustav Freitag. 854
221. Hoffmann, Julius, Stuttgart. Juvenile literature. 854
222. Hoffmann, A. & W., Berlin. Printed works. 854
223. Holtze's, Otto, Nachf, Leipsic. Classics and dictionaries. 854
224. Institut, Kaiserlich deutsches archæologisches, Berlin. Official publications. 854
225. Institut, Bibliographisches, Leipsic. Meyer's dictionary, "Brehm's thierleben," etc. 854
226. Institut, Koenigl Stenographisches, Dresden. Publications of members. 856
227. Issleib, Wilhelm, Berlin. Works on medicine. 854
228. Jordan's, W., Frankfort-on-the-Main. High class literature, "die Neibelungen," "Odyssee." 854
229. Juestel & Goettel, Leipsic. Works for manufacturers. 854
230. Kanits, Herm. Gera. Printed works. 854
231. Keil's Ernst, Nachf, Leipsic. Magazine, "Gartenlaube." 857
232. Keller, Wilhelm, Munich. Printed works. 854
233. Keller, Henri, Frankfort-on-the-Main. Illustrated works on architecture, art history, etc. 857
234. Klim, Gebirgskuroeb Polizin, Pomerania Pamphlets. Dept. A 854
235. Kits, Herm., Saulgau, Wurtemberg. Printed works. 854
236. Klemm & Weiss, Dresden. Trade literature for tailors. 860
237. Klinkhardt, Jul, Leipsic. Printed works. 854
238. Koehler's, K. F., Antiquarium, Berlin. Printed works. 854
239. Koehler, K. F., Leipsic. Printed works. 854
240. Kohlhammer, W., Stuttgart. Works on political history and jurisprudence, oriental literature, documents from the Vatican. 854
241. Kreidel, C. W., Wiesbaden. Printed works. 854
242. Kretschmann, R., & M., Magdeburg. Ornithological literature. 854
243. Kuechtmann, Gerhard, Dresden. Books on pedagogy and technology. 854
244. Kuerschner, Jos., Stuttgart. Selection of own works. 854
245. Kuns, M., Illsach, Alsace. Geographical works. 854
246. Kunstakademie und Kunstgesverbeschule, Koenigl, Leipsic. Official publications of the institution. 854
247. Labensien, Max, Rathenow. Military literature. 854
248. Lang, Georg, Leipsic. Maps. 864
249. Lampart's Alpiner Verlag, Augsburg. Maps and guides to the German Alps. 854
250. Langenschiedt, Prof. G., Berlin. Works on the study of modern languages and literature. 854
251. Lang, Georg, Leipsic. Books. 854
252. Laupp'sche, H. Buchhandlung, Tübingen. Works on jurisprudence, political economy and medicine. 854
253. Lehmann's, J. F., Medizinische Buchhandlung, Munich. Printed works. 854
254. Leipziger Monatschrift fuer Textil Industrie, Leipsic. Trade literature. 860
255. Lesimple's Adolph Verlag, Leipsic. Printed works. 854
256. Liegismund, K., Berlin. Portrait gallery of the reigning princes and princesses of Europe. 857
257. Limbarth, Chr., Wiessbaden. Printed works. 854
258. Lindauersche, J., Buchhandlung, Munich. Scientific works. 854
259. Lipsius & Fischer, Kiel. Books on shipbuilding. Dept. G 854
260. Lipperheide, Franz, Berlin. Periodical "Modenwelt." 857
261. Lipsius & Fischer, Kiel. Nautical works. 854
262. Loewenthal, W. & S., Berlin. Berlin directory. 862
263. Loewe's, F., Verlag, Stuttgart. Juvenile literature. 854
264. Luestenoeder, H., Berlin. Printed works. 854
265. Maeser, Julius, Leipsic. Printed works. 854
266. Mahlan & Waldschmidt, Frankfort-on-the-Main. Printed works. 854
267. Mahn, Adolf, Leipsic. "Von Haus zu Haus," weekly journal. 857
268. Malcanes, Carl, Berlin. Printed works. 854
269. Martin, C. A., Leipsic. Trade journal for turners and wood sculptors. 856
270. Mittelacher, Ad., Duesseldorf. Card-board labels. 860

DEPARTMENT L.—LIBERAL ARTS.

271. Mitscher & Roestell, Berlin. Printed works. 854
272. Mohrmann, Ernst, Stuttgart. Printed works. 854
273. Morgenstern, E., Breslau. Maps for instruction in physics and natural history. 864
274. Moritz, J. & Co., Hangenbieten, Alsace. Copying book with sample print. 854
275. Mueller, Michael, Munich. Trade literature for merchant tailors. 860
276. Mueckenberger, Rudolf, Berlin. Printed works. 854
277. Municipality of Berlin. Plans: Insane asylum, public lodging house, hospital, public baths, stock yards and slaughter house, markets, bridges, drainage, gas works, etc. Dept. G 863
278. Naumann, C. G., Leipsic. Printed works. 854
279. Nitzschke, Wilh., Stuttgart. Juvenile literature and natural history. 854
280. Oldenburg, R., Munich. Books. Dept. G 854
281. Opitz & Co., Guestrow. Printed works. 854
282. Oppenheim, R., Berlin. Scientific works. 854
283. Paetel, Gebr., Berlin. "Deutsche Rundschau," memoirs, etc. 854
284. Paetel, Hermann, Berlin. Scientific works. 854
285. Pasch, Max, Berlin. Printed works. 854
286. Pawelek, H., Regensburg. Theology works. 854
287. Perthes, Justus, Gotha. Literature. 854
288. Pfisterer & Leser, Lahr-Baden. Labels and posters. 860
289. Pietsch, Fr. Chr., Giessen. Printed works. 854
290. Prager & Lozda, Berlin. Advertising posters. 860
291. Prager, R. L., Berlin. Works on political economy. 854
292. Pustet, Fr., Regensburg. Printed works. 854
293. Puttkammer & Muehlbrecht, Berlin. Works on political economy and jurisprudence. 854
294. Ramm & Leemann, Leipsic. Printed works. 854
295. Redaktion der Zeitschrift "Stahl und Eisen," Duesseldorf. Literature. Dept. G 854
296. Regenhart, C., Berlin.
a Works on philology and commercial science. 854
b Trade directories. 862
297. Reimer, Dietrich, Berlin. Geographical maps and globes. 864
298. Reissland, O. R., Leipsic. Works on jurisprudence, medicine and geography. 854
299. Reuther, H., & Reichard, Berlin. Printed works. 854
300. Richter & Kappler, Munich. High class literature. 854
301. Rosenbaum & Hart, Berlin. Printed works. 854
302. Roth, Emil, Giessen. Printed works. 854
303. Rueger, Max, Berlin. Printed works. 854
304. Russel's, Adolph Verlag, Muenster i-W. Catalogue of the German publishing houses. 860
305. Saechsischer Ingenieur und Architekten-Verein, Dresden. Organ of the association, "The Civil Engineer." 856
306. Schaefer, Moritz, Leipsic. Technological works. 856
307. Schlesische Buchdruckerei, Kunst und Verlags vorm, S. Schottlaender-anstalt, Breslau.
a Sample book with printed matter. 854
b Roster. 860
308. Schmorl & von Seefeld Nachf, Hannover. Books. Dept. G 854
309. Schmidt & Gelbrecht, Berlin. Manual directory for exporters. 862
310. Schmidt, H., & C. Guenther, Leipsic. Illustrated works on geography and ethnology. 857
311. Schoeningh, Ferd., Paderborn. School books. 855
312. Schorer, J. H., Berlin. "Das Echo" and "Schorer's" Familienblatt periodicals. 857
313. Schroeder, T. V., Paderborn. Printed works. 854
314. Schueffner, H. J., Nuremberg. Posters and advertising cards. 860
315. Schulze, Rich., Duisburg. Books. 854
316. Schulz, Engelhard W., Berlin. Works on art industry and architect. 854
317. Seehagen, Oswald, Berlin. Schlosser's history of the world. 854
318. Seemann, Arthur, Leipsic. High class literature. 854
319. Seemann, E. A., Leipsic. Work on art and art industry. 854
320. Send, Anton, Altona. Works on the textile industry, weaving, etc. 854
321. Seydel, A., Berlin. Books. Dept. G 854
322. Siemenroth & Worms, Berlin. Works on political science and jurisprudence. 854
323. Siemens, Georg, Berlin. Works on architecture. 854
324. Simon, Leonhard, Berlin. Books. Dept. G 854
325. Sittenfeld, Julius, Berlin. Printed works. 854
326. Soldau, Sigmund, Nuremberg. Illustrated works. 857
327. Spamer, Otto, Leipsic. Spamer's encyclopedia, Buch der Erfindungen juvenile literature. 854
328. Spangenberg, E., Berlin. Stamped writing paper, congratulation cards, etc. 854
329. Spamer, Hugo, Berlin. Printed works. 854
330. Speyer & Peters, Berlin. Scientific works. 854
331. Springer, Julius, Berlin.
a Books. Dept. G 854
b Trade works. 860
332. Stankiewier, P., Berlin.
a Trade works. 860
b Directory for exporters. 862

GERMANY.

333. Stahl Sooi und Eisenmoorbad, Pyrmont. Pamphlets. Dept. A 854
334. Stankiewicz, P., Berlin. Scientific works. 854
335. Steinschneider, Julius, Berlin. Printed works. 854
336. Strassburger Druckerei und Verlagsanstalt vorm R. Schultz & Co., Strassburg i-A. Printed works. 854
337. Strauss, Emil, Bonn. Illustrated works. 857
338. Stroefer, Theo., Munich. Printed works. 854
339. Tauchnitz, Bernhard, Leipsic. "Tauchnitz edition" of dictionaries for foreign languages. 854
340. Terosch, H., Berlin. "Berliner Pflaster" illustrated journal. 857
341. Teubner, Leipsic. Books. Dept. G 854
342. Travers, J., Mayence. International Police Gazette. 857
343. Trewendt, Ed., Breslau. Works on natural science. 854
344. Trowitzsch & Sohn, Berlin. Printed works. 854
345. Truebner, Karl J., Strassbourg i-Alsace. Scientific works. 854
346. Union, Deutsche Verlagsgesellschaft, Stuttgart. Printed works. 854
347. Vahlen, Franz, Berlin. Works on political science, jurisprudence, and general history. 854
348. Vandenhoeck & Ruprecht, Goettingen. Religious works. 854
349. Valhagen & Klasing, Leipsic.
a History and juvenile books. 854
b School books. 855
c Manual atlas. 864
350. Verband der Dampfkessel Ueberwachungs-Vereine, Breslau. Periodicals of the association. 856
351. Verein, Allgemeiner fuer Deutsche Litteratur, Berlin. Printed works. 854
352. Verein Deutscher Ingenieure, Berlin. Periodicals of the association. Dept. G 856
353. Verein zur Befoerderung des Gewerbfleisses, Berlin. Literature. Dept. G 854
354. Verlag der Fachzeitschrift der Industrie des Erzgebirges und des Vogtlandes, Dresden. Trade journal. 856
355. Verlagsanstalt und Druckerei vorm, T. F. Richter, Hamburg. Printed works. 854
356. Verlagsanstalt fuer Kunst und Wissenschaft, Munich. Art, historical and illustrated works. 857
357. Verlag und Expedition der Internationalen Zeitschrift fuer Industrie und Handel, Berlin. "Der Weltmarkt." 856
358. Veiweg, Fr. & Sohn, Brunswick.
a Books. 854
b Chemical technical works. 856
359. Voigt, Bernh. Fr., Weimar. Works on technology and industry. 854
360. Volckmar, F., Leipsic. Printed works. 854
361. Voss, Leop., Hamburg. Medical works. 854
362. Wagner, H. & E. Debes, Leipsic. Printed works. 854
363. Warschaner, Moritz, Berlin. Trade journal for manufacturers of musical instruments. 856
364. Wasmuth, Ernst, Berlin. Works on architecture and art. 854
365. Weber, T. T., Leipsic. Illustrated journal. 857
366. Weigel, Gustav, Leipsic. Printed works. 854
367. Weike, R., Stassfurt. Pamphlets. Dept. G 854
368. Welter, H., Leipsic and Faris. Printed works. 854
369. Werner, Jul., Leipsic. Printed works. 854
370. Werner, L., Munich. Works on architecture and art industry. 856
371. Westermann, Geo., Brunswick. Printed works. 854
372. Wiegandt & Grieben, Berlin. Pedagogical and theological works. 854
373. Wigand, Otto, Leipsic. Medical, technical books and dictionaries. 854
374. Wittwer, K., Stuttgart. Books. 854
375. Wolfrum, Fr., Duesseldorf. Works on architecture and art industry. 854
376. Wollermann, H., Brunswick. Theological and pedagogical literature. 854
377. Woywod, Max, Breslau. Printed works. 854
378. Zahn, G. & H. Baendel, Kirchhain, N. L. Printed works in foreign languages. 854
379. Zeitschrift fuer das Berg, Huetten und Salinenwesen, Berlin. Publications. Dept. G 854
380. Zernin, Ed., Darmstadt. Printed works. 854
381. Zwissler, Julius, Wolfenbuettel. Printed works. 854

GROUP 151.

382. Abendroth, F., Leipsic-Plagwitz. Photographs. 871
383. Archenhold, F. S., Halensee, near Berlin. Astronomical-meteorological photographs. 871
384. Beckert, Max, Papenkirchen. Photographs. 871
385. Berger, Walter & Co., Goetzenbrueck, Lorraine. Eye glasses. 874
386. Bock Hilmar, Oberweissbach i-Th. Thermometers. 872
387. Bohne, Otto, Berlin. Thermometers and hygrometers. Dept. J 872
388. Burckhardt, Arth., Glashuette, Saxony. Calculating machine. Dept. J 865
389. Butenschoen, Georg, Bahrenfeldt, near Hamburg. Geodetic instruments. Dept. J 867
390. Carette, Geo & Co., Nuremberg. Stereoscopes, pantoscopes, etc. 874
391. Custodis, Alphons, Duisseldorf. Dasymer, air-pyrometer, draft-meter. Dept. F 872
392. Dieckmann, W., Calle-Hanover. Geographic musical clock. Dept. J 873
393. Dietrich, Michael, Munich. Landscape photos. 871
394. Dreesen, Wilh., Fleusburg. Photos, portraits and landscapes. 871
395. Dressler & Heinemann, Munich. Photographic apparatus and utensils. Dept. D 871
396. Ernst, Karl, & Co., Berlin. Paper and cartoon goods for photos. 871

DEPARTMENT L.—LIBERAL ARTS.

397. Goerz, C., Berlin-Schoeneburg. Photographic lenses. 871
398. Grossherzogli, Saechsische Praefungsanstalt fuer Glasinstrumente, Ilmenau, i-Th. Thermometers, areometers. Dept. J 872
399. Haack, Max, Adolph, Leipsic. Field glasses, optic resources for war exigencies. Dept. H 874
400. Haff, Gebrueder, Pfraten, Bavaria. Cases of mathematical instruments. 867
401. Hanfstaengel, Franz, Munich. Photographs. 871
402. Hasemann, A., Berlin. Adjusting apparatus for scales, etc. Dept. J 865
403. Herzheim Bros., Dueren. Photographic paper. 871
404. Hirschmann, W. A., Berlin. Apparatus electro-therapeutics. Dept. J 875
405. Jung, R., Heidelberg. Scientific instruments. 865
406. Kehr, S. Gg., Nuremberg. Mathematical cases of instruments. 867
407. Kricheldorf, Julius, Berlin. Portraits taken by magnesium light. 871
408. Kromschroeder, G., Osnabrueck. Gas meters, etc. Dept. J 865
409. Kruess, A., Hamburg. Spectro-apparatus, photometric and projection apparatus. Dept. J 870
410. Kuntzenmueller, W., Baden-Baden. Photographs. 871
411. Leisener, A. Waldenburg, i-S. Porcelain articles with burned photos. 871
412. Luft, G., Stuttgart. Metal barometers. Dept. J 872
413. Moeller, Oskar, Hamburg. Holosteric and patent metal barometers, thermometers. Dept. J 872
414. Merz, Jakob, Munich. Equatorial and astronomical object glasses. Dept. J 866
415. Metallwaaren und Maasfabrik, Werdau-Saxony. Instruments of precision, water scales and measures. Dept. H 865
416. Niehs, W., Berlin. Thermometers and areometers. Dept. J 872
417. Ott, Albert, Kempten. Surveying instruments. Dept. J 867
418. Pessler, Adolph, Freiburg, Saxony. Libellas for astronomical and mathematical instruments. Dept. J 868
419. Photo-technical Laboratory of the Royal Technical High School. Charlottenburg. Photo-chemical process. 871
420. Physikalisch Technische Reichsanstalt, Berlin. Scientific instruments and apparatus. Dept. J 865
421. Pinger, Th., Berlin. Photographic supplies. 871
422. Prager & Lojda, Berlin. Photographic cards and cartoons. 871
423. Reiniger, Gebhart & Schall, Erlangen. Electro-medical apparatus. Dept. J 875
424. Riefler, Clemans, Munich. Cases of mathematical instruments. Dept. J 867
425. Schieck, F. W., Berlin. Microscopic apparatus, etc. Dept. J 874
426. Schilling, Theodor, Nuremberg. Cases of mathematical instruments. 867
427. Schmidt, Georg, Schmiedefeld Kreis, Schlensingen. Thermometers and other glass instruments. Dept. J 872
428. Schmidt, Franz & Haentsch, Berlin. Polarization apparatus, photometers, spectro-photometers, etc. Dept. J 874
429. Schoener, Georg, Nuremberg. Cases of mathematical instruments. Dept. H 867
430. Schott & Gen, Jena.
a Tubes for thermometers, etc. Dept. J 872
b Optical glasses. 874
431. Schubert, Max, Chemnitz, Saxony. Monometers. 867
432. Schuler, H., Heilbronn. Photographic products. 871
433. Schultz, G. A., Berlin. Thermometers, alcohol meters, areometers, etc. Dept. J 872
434. Schulze & Bartels, Rathenow.
a Object glasses for telescopes, etc. Dept. J 866
b Field glasses. 874
435. Schuetze & Noack, Hamburg. Photographs. 871
436. Schuster, Rudolf, Berlin. Photographs. 871
437. Staudinger, C., & Co., Nachf, Giessen. Testing scales, kathetometers, etc. Dept. J 865
438. Steeg, Dr., & Reuter, Homburg v. d. Hohe. Instruments, etc., for the polarization of light, saccharimeters. Dept. J 870
439. Stegemann, Berlin. Cameras. 871
440. Steinheil, C. A., Soehne, Munich.
a Astronomical telescopes and appliances. Dept. J 866
b Photographic glasses, etc. 871
441. Stephanus, H., Trier. Album containing views of Trier. 871
442. Stockert, Paul, Fuerth. Compass. Dept. J 867
443. Stoeffler, Wilk., Pforshiem. Opera glasses. 874
444. Strumper & Co., Hamburg. Photographs, etc. 871
445. Sydow, Emil, Berlin. Optical and ophthalmological instruments. Dept. J. 874
446. Tesdorpf, Ludwig, Stuttgart.
a Astronomical instruments. Dept. J 866
b Geodetic and surveying instruments. 867
447. Uflacker, H., Altona. Views of Altona and environs. 871
448. Vogel, Ulrich, Berlin. Natural colored photo-prints. 871
449. Voigtlaender & Sohn, Brunswick.
a Terrestrial telescopes. Dept. J 886
b Photographic lenses. 871
c Double field glasses. 874
450. Wenzel, Georg, Hamburg. Instantaneous photos. 871
451. Wiminell, P. & Co., Berlin. Photographs. 871
452. Zeiss, Karl, Yena. Microscopes and micro-photographic apparatus. Dept. J 874

GROUP 152.

453. Aktien-Maschinenbau-Anstalt, vorm Venuleth & Ellenberger, Darmstadt. Model of an alcohol distillery, drawings, etc. Dept. G 889
454. Bachs, C., Professor, Stuttgart. Publication. Dept. G 844

GERMANY.

455. Barth, Conrad, & Co., Munich. Facade. 889
456. Blumberg & Schriber, Berlin. Design of a circus building for Berlin. 889
457. Chief Mayor's Office, Leipsic. Drawings, plants and machinery of the city water-works. Dept. G 881
458. City Council, Karlsruhe. Drawing, reservoir of the Karlsruhe water-works. Dept. G 881
459. Deutsche Continental Gas Gesellschaft, Dessau. Drawings of gas-works and electric plants. Dept. G 889
460. Dollinger, C., Stuttgart. Renovation of the facade of the City hall at Tuebingen. 889
461. Durm, Josef, Karlsruhe. Drawings of the palaces and the churches of Germany. 889
462. Ebhardt & H. von Holst, Berlin. Drawings of residences of the vicinity of Berlin. 889
463. Eichner, W., Leipsic, Gohlis. Roofs of wicker-work. Dept. G 889
464. Ende & Boeckmann, Berlin. Drawings of public institutions. 889
465. Generaldirektion der Kgl. Bayerischen, Staatseisenbahnen, Munich. Photographs of river bridges, waiting room of the Central passenger depot at Munich. Dept. G 889
466. Grossh Hessisches Staatz-bezw, Finanzministerium, Darmstadt. Plans for the construction of a solid street bridge across the Rhine near Mainz. Dept. G 880
467. Grossherzogliche Badische Oberdirektion des Wasser und Straussenbaus, Karlsruhe. Drawings of the bridge crossing The Neckar at Mannheim. Dept. G 880
468. Gute Hoffnungshuette, Aktren Verein fuer Bergbau und Huettenbetrieb, Oberhausen. Iron construction for the Krupp pavilion, photographs of former works. Dept. G 889
469. Haller, M., Hamburg. Drawing of of the office of the Hamburg-American Packet Co., at Hamburg, drawing of the Dovenhof in Hamburg. 889
470. Hanberisser, G., Munich. Drawing: City hall at Wiesbaden, etc. 889
471. Haniel & Lug, Duesseldorf. Drawings of hydraulic apparatus of the ports of Hamburg and Venice. Dept. G 881
472. Hannover'sche Maschinenbau, Akt. Gesellschaft vorm Georg Egestorff, Linden-Hanover. Drawing of water works of Berlin and Rotterdam. Dept. G 881
473. Heim, L., Berlin. Drawings of Berlin hotels. 889
474. Heinewetter, Hans, Munich. Drawings of Exposition buildings. 889
475. Helios Aktiengesellschaft fuer Elektrisches Licht und Telegraphen Bau, Cologne-Ehrenfeld. Drawings and photographs of electricity plants at Cologne and Amsterdam. Dept. G 889
476. Hofmann, K., Worms. Drawings: water tower and storage house in Worms. 881
477. Hoven, Fr., von Frankfort-on-the-Main. Drawings of the Essighaus at Frankfort, residence at Koenigstein. 889
478. Stueckenholz, Ludwig, Wetter, a-d-Ruhr. Photographs and drawings of harbor-cranes. Dept. G 881
479. Humboldt, Maschinen bau Anstalt, Kalk near Cologne. Drawings and models of plants for the preparation of ore and coal, etc. Dept. G 885
480. Kaiserliche Kanal-Kommission, Kiel. Relief plan of the North and Baltic Sea, canal with environs. Dept. G 882
481. Kayser & von Grossheim, Berlin. Drawings of Leipsic buildings. 889
482. Kgl. Bayerisches Staatsministerium des Inneren, oberste Baubehorde, Munich. Dept. G
- a Photos of mountain roads, etc. 879
- b Photos of stone and iron bridges. 880
- c Works relating to water constructions. 881
483. Kgl. Generaldirektion der Bayerischen Staatseisen Bahnen, Munich. Drawing: Service building of the Central railroad depot in Munich. 889
484. Kgl. Mech. Techn. Versuchsanstalt, Berlin-Charlottenburg. Plan and interior views of the assay localities and workshops, etc. Dept. G 885
485. Kgl. Preussisches Ministerium der Oeffentlichen Arbeiten, Berlin.
- a Plans, drawings, photographs and printed works of Prussian hydraulic architecture. Dept. G 881
- b Drawings of public buildings. 889
486. Kgl. Saechsisches Finanzministerium, Dresden. Models, drawings and photographs of bridges, etc. Dept. G 880
487. Klingenberg, E., Treseburg. Designs: Enlargement of the Cathedral and museums in Berlin. 889
488. Kreyszig, Ed., Mainz. Drawing: City hall of Mainz. 889
489. Kuemmel, W., Hamburg.
- a Drawing of Altona water works. Dept. G 881
- b Drawing of Guaguaquil gas works. 889
490. Kramer, Th., von Nuremberg. Drawing: Industrial museum of Nuremberg. 889
491. Lambert & Stahl, Stuttgart. Drawing: National museum of Berne. 889
492. Licht, H., Leipsic. Design of the City hall in Leipsic, police headquarters and enlargement of the museum. 889
493. Linse, Ed., Aachen. Designs of residences, interior decoration. 889
494. Luther, G., Brunswick. Display of the work of removing rocks on the lower Danube; harbor plants at La Plata and Odessa. Dept. G 881
495. March, O., Charlottenburg near Berlin. Drawings: Municipal theatre and business house in Worms. 889
496. Menck & Hamm, Altona-Hamburg. Drawings of engines for the construction of the harbor at Santos. Dept. G 881
497. Meyer, Dr. M. W., Berlin. Observatory hall for physical experiments and astronomical theatre. 889
498. Municipal Administration, Frankfort-on-the-Main. Drawing: Opera house, Frankfort. 889

DEPARTMENT L.—LIBERAL ARTS.

499. Municipality, Frankfort-on-the-Main. Models and drawings of water works and drainage. Dept. G 881
500. Municipality, Munich. Plans and models of the drainage system and water-works. Dept. G 881
501. Municipality, Altona. Drawings of the machinery and filter plant of the Altona water works. Dept. G 881
502. Municipality, Darmstadt.
a Drawings and photos of the water works. Dept. G 881
b Drawings and plans of the electricity works. 889
503. Municipality, Worms. Model of a submerging apparatus; models and plans of the municipal filter plants. Dept. G 881
504. Municipality, Koenigsberg.
a Drawings of the Municipal bridges. Dept. G 880
b Drawings of the Municipal electric works. 889
505. Neckelmann, Skjold, Stuttgart. Drawings: Industrial museum (Stuttgart), national library (Strassburg), etc. 889
506. Neher, L., & Von Kauffmann, Frankfort-on-the-Main. Drawings: Pfluegensberg Castle, near Eisenach; bank building, Frankfort. 889
507. Neumeister, A., Karlsruhe. Drawing: Altenstein Castle, near Liebenstein i-Th. 889
508. Neukirch, Fr., Bremen. Drawings, photos and models of cranes, pumping works, etc. Dept. G 885
509. Otzen, J., Berlin. Drawings: "Reformation" Church, Wiesbaden; "Luther" Church, Berlin. 889
510. Rossbach, A., Leipsic. Drawing: University library, Leipsic. 889
511. Scharf, Georg F., Altona. Plans of the gas works at Harburg. Dept. G 889
512. Schaefer, E., & Hartung, H., Charlottenburg. Designs for a Catholic church at Duesseldorf, college at Wannsee and suburban residence of Berlin. 889
513. Schmidt, A., Munich. Drawings: Paechl castle on Lake Ammer; new synagogue and Protestant church, Munich. 889
514. Schmidt, F. H., Altona. Drawings and models of iron sheet piling and harbor construction work. Dept. G 881
515. Poppe, J. G., Bremen. Drawing: Enlargement of the City hall in Bremen. 889
516. Pruska, Anton, Munich. Pillars. 889
517. Rabitz, C., Berlin. Pavilions of the German viticultural exhibit. Dept. B 889
518. Reichsamt des Inneren, Berlin. Models: Imperial Patent office; Parliament building; Insurance office of the empire. 889
519. Riedinger, Aug., & Co., Augsburg. Drawings and diagrams of the pneumatic plant at Offenbach-on-the-Main. Dept. G 884
520. Schmitz, Franz, Strassburg. Drawing: Renovation of the Strassburg "Muenster." 889
521. Schreiterer & Schreiber, Cologne. Drawing: City hall vault in Halle. 886
522. Schulze, Fr., Berlin. Model of the buildings of the Prussian Diet in Berlin. 889
523. Schwarz, G., Hildesheim. Drawing: Renovation of the City hall in Hildesheim. 889
524. Seeling, Heindrich, Berlin. Designs: Theatre (Stockholm), university library (Leipsic), mineral drinking hall (Wiesbaden). 889
525. Senat, Bremen. Drawings: Improvements on the lower Weser, free port of Bremen; harbor plant in Bremenhaven. Dept. G 881
526. Solf, Berlin. Drawing: Country-house near Berlin. 889
527. Thiede, Aug., Berlin. Design of a Museum for Classic Art. 889
528. Thost, Otto, Zwickau. Model of a steam boiler with smoke consumer. Dept. G 884
529. Tueshaus & von Abbema, Duesseldorf. Drawing: Drachenburg castle, near Koenigswinter. 889
530. Von Weltzien, V. Wagner, H. und Marx Erwin, Darmstadt. Drawings: Buildings of the Technical High School, Darmstadt. 889
531. Von Holst, M., Berlin. Drawing: Residence of Von Holst in Neubabelsberg. 889
532. Walther, C., Nuremberg. Drawing: Tucher's brewery, Berlin; facade "Rudolstadt," Rudolstadt. 889
533. Warth, Eggert, Issleiber, Salomon, Jacobsthal, Brion, Strassburg. Drawings: Renovations for the University at Strassburg (Alsace). 889
534. Welb, Frankfort-on-the-Main. Design for the Frankfort bank. 889
535. Zutze, Prof. Otto, Aachen. Drawings and photos of various plants. 885

GROUP 153.

536. German Imperial Postoffice, Berlin. Models of postoffice buildings and interior arrangement of a postoffice and telegraph bureau, mail cars and the pneumatic system; German post stamp collection, telephone apparatus, etc. 893
537. Jeserich, Dr. Paul, Berlin. Photographs for the investigation of criminal cases. 894

GROUP 156.

538. Kaufmaennischer und Gewerblicher Huelfsverein fuer Weibliche Angestellte, Berlin. Pamphlet, industrial and educational. 918
539. Reichs-Versicherungsamt, Berlin. Synopsis of the statute relative to the insurance of workmen. Dept. F 918

GROUP 157.

540. Abesser & Kroeger, Berlin. Synagogue in Glogan. 919
541. Behr, Heinrich, Leipsic. Reliefs representing religious subjects; altars. 919
542. Charitable Association in Germany. Pamphlet relative to charity in Germany. 925
543. Ehui, Geo., Stuttgart. Two lapis-lazuli pillars and holy water font. 919

GERMANY.

544. Hase, C. W., Hanover. Drawing: Church at "Georgs, Marienhaette." 919
545. Hahl, Christoph, Hanover. Drawings of cathedrals of Bremen. 919
546. Levy, L., Karlsruhe. Drawing: Synagogue in Kaiserslautern. 919
547. Meckel, Frankfort-on-the-Main. Drawing: Pilgrim church at St. Rochus in Bingen. 919
548. Mengelberg, Wilhelm, Cologne. Model of northern portal of the cathedral at Cologne. 919
549. Pfeilstuecker, Fr., Berlin. Illustrated Bible. 922
550. Salzmann, Bremen. Drawing: Reconstruction of the cathedral at Bremen. 919
551. Schmidt, H. Freiherr von, Munich. Drawings: Churches in Darmstadt and Oppenheim City hall in Passau. 919
552. Schwechten, Franz, Berlin. Model of the Emperor Wilhelm Memorial church, Berlin. 919
553. Striegler, Ph., Frankfort-on-the-Main. Drawing: Catholic Parish church, Mainz. 919
554. Thiersch, A., Munich. Drawing: Catholic Parish church, Schwabing, near Munich. 919
555. Thun, Josef, Kevelar-Rhine province. Prayer-books in all languages. 922
556. Tornow, P., Metz. Drawing: Reconstruction of the cathedral at Metz. 919
557. Von Cansteinsche Bibelanstalt, Halle a-S. Bibles. 922
558. Weinzierl Franz Xaver, Munich. Missals, prayer-books. 922
559. Werner, Frz. P., Munich. Church ornament. 919
560. Winkler, C., Colmar. Drawing: Renovation of St. Theobaldus church, Tham (Alsace). 919
- GROUP 158.**
561. Arati & Co., Berlin. Mechanical music works. 927
562. Arnold, Wilh., Aschaffenburg. Zithers. 928
563. Belaieff, M. P., Leipsic. Music. 926
564. Bochumer Verein fuer Berzbau und Gusstahlfabrikation, Bochum. Chimes of cast steel. 927
565. Brachhausen & Riessner, Leipsic-Eutritzsch. "Polyphone" musical works, automatic music boxes. 927
566. Breitkopf & Haertel, Leipsic. Musical works. 926
567. Cocchi, Brazigalupo & Grafigna, Berlin. Grinding organs, salon-orchestration. 935
568. Dietrich, Wilh., Leipsic. Music. 926
569. Ellersieck, Alf., Rostock. Strings. 936
570. Fabrik Lochmann's cher Musikwerke, Aktiengesellschaft, Leipsic-Gohlis. Musical works. 926
571. Fuchs, Joh. Wolfz, Nuremberg. Strings for instruments. 936
572. Grottrion, Hallferich, Schulz, The Steinweg Nachf, Brunswick. Pianos. 930
573. Hauschulz, Julius, Berlin. Piano. 930
574. Haslevanter, Joh., Munich. Guitars, zither, etc. 928
575. Heilbrunn, W., Soehne, Berlin. Drums and tambourines. 927
576. Heinrichshofen's Verlag, Magdeburg. Music. 926
577. Hohner, Mathias, Trossingen-Wurt. Mouth harmonicas. 935
578. Hupfeld, Ludw., Leipsic, Eusritzsch. *a* Mechanical cymbal. 927
b Mechanical piano, apparatus for piano playing. 930
579. Imhof & Mukle, Woehrenbach. Mouth harmonicas. 935
580. Kistner, Fr., Leipsic. Music. 926
581. Koch, Andreas, Trossingen, Wurt. Mouth harmonicas. 935
582. Koerner, Guenther, Gera. Accordions. 935
583. Kruspe, L., Jnh. F. W. Kruspe, Erfurt. *a* Flutes. 931
b Clarionets, oboes, etc. 932
584. Lange, F., vorm. C. F. Uhlig, Chemnitz. Concertinas, bandonions. 935
585. Litollfe, Henry, Verlag, Brunswick. Music. 926
586. Lochmann, E. G. & Co., Leipsic, Gohlis. Accordions with chimes. 935
587. Loewenthal, L., Berlin. Cellos, violas, violins, etc. 929
588. Maier, Aloys, Fulda. Music. 926
589. Meier, Franz, Freiburg i-Baden. International postal card containing the music for several works. 926
590. Mestner, Christian & Co., Trossing, Wurt. Mouth harmonicas. 935
591. Mollenhauer, T. & Soehne, Jnh. Th., Mollenhauer, Fulda. *a* Flutes. 931
b Clarionet, etc. 932
592. Neumann, F. L., Hamburg. Pianos. 930
593. Neupert, F. L., Bamberg. Pianinos. 930
594. Oertel, Louis, Hanover. Music. 926
595. Otto Louis, Duesseldorf. Quartet of string instruments. 929
596. Peters, C. F., Leipsic. Music. 926
597. Poehlmann, Moritz, Nuremberg. Cast steel cords for pianos. 930
598. Rachals, M. F., & Co., Hamburg. Grand pianos, pianinos. 930
599. Rather, D., Leipsic. Music. 926
600. Rene & Co., Stettin. Concert pianino. 930
601. Rittershausen, Emil, Berlin. Flutes. 931
602. Roenisch, Carl, Dresden. Piano and grand pianos. 930
603. Rohlfing, Gebr., Osnabrueck. Two pianos. 930
604. Scheel, Carl, Cassel. Pianos. 930
605. Schmidt, Arthur P., Leipsic. Music. 926
606. Schmidt, C. F., Heilbronn. Music. 926
607. Schuetzhold & Werner, Leipsic. Musical works. 926
608. Schulze, Carl, Berlin. Two string quartette, one mandolin quartette, etc. 929
609. Schuberth, Fritz, jun., Leipsic. Music. 926
610. Schwechten, G., Berlin. Piano and grand piano. 930

DEPARTMENT L.—LIBERAL ARTS.

- | | |
|--|---|
| 611. Seiler, Ed., Liegnitz. Piano and grand piano. 930 | 616. Thunhart, Jos., Jnh. der Firma Xaver Thunhart, Munich. Zither and mandolins. 928 |
| 612. Sickelka, C. B., Hamburg. Accordions. 935 | 617. Thuerner, Ferd., Meissen. Piano. 930 |
| 613. Spindler, Geo.; Sonneberg. Masks. 938 | 618. Tiefenbrunner, Georg, Munich. Stringed instruments. 928 |
| 614. Stahl und Drahtwerk Roeslau, Ficht Gebieze. Piano chords, and wire textures for the back. 930 | 619. Weiss, Ch., Trossing-Wurt. Mouth harmonicas. 935 |
| 615. Stelzner, Dr. Alfred, Dresden. Violins, violas, violoncellos, etc. 929 | 620. Welte, M., & Soehne, Freiburg i-Baden. Orchestrions. 935 |

GREAT BRITAIN.

GROUP 147.

1. Amines Syndicate, Ltd., London. Model illustrating system of treating and disposal of sewage, also samples of disinfectant. 829
2. Commissioners of Sewers of the City of London. Maps, plans, etc., showing method of street cleaning, etc.; models showing construction of subways under Holborn viaduct. 829
3. Cremation Society of England, London. Views of crematorium at Woking. 829
4. Ewing, Robert, London. Stoneware sewers and drains. 829
5. Golf Company, St. Andrews, Scotland. Golf clubs and balls. 825
6. International Water & Sewage Purification Co., Ltd., London. Plans and models of filtering apparatus for public water supplies. 829

GROUP 148.

7. Ash, Claudius, & Sons, Ltd., London. Instruments and apparatus of dental surgery. 839
8. Cruickshank, Arthur B., London. Syringes. 837
9. Dental Manufacturing Company, Ltd., New Barnet. Dental apparatus. 839
10. Fournet, A., London. Ophthalmic refractometer. 836
11. Keen, Robinson & Belleville, London. Groats and barley for invalids. Dept. A 835

GROUP 149.

12. Bacon, G. W., & Co., Ltd., London. School maps, atlases, drawing charts, etc. 842
13. British Government, Science & Art Department, London. Examples of Drawing, painting, modeling and design executed by art students in the National Art Training Schools, South Kensington, London, and in other schools of art in the United Kingdom. 846
14. Choat, Frank, Sandringham. Chased copper tray. 847
15. Cunningham, D. J., Dublin. Models showing topographical relations of the brain in man and the apes. 852
16. Johnston, Ruddiman, & Co., Ltd., London. School maps and illustrations. 842

17. Oxford University Extension, Oxford. Books, papers, photographs and drawings, illustrative of the history and method of the University extension system. 851
18. School Board for London, London. Specimens of work done by pupils in the schools, and of school materials and appliances, models, plans and elevations, regulations and reports. 850
19. Whitechapel Craft School, London. Drawings and models illustrating course of manual instruction for teachers and scholars. 847

GROUP 150.

20. Art Union of London, London. Works of art open to selection by subscribers. 854
21. Biggs, F. J., London. Prices current. 860
22. British Art Publishers' Union, Ltd., London. Etchings, engravings and photo-gravures. 854
23. Bushill, T. W., Brantwood. Book on the labor question. 854
24. Clifford, C. E. & Co., London. Engravings, etchings and mezzotints. 854
25. Culleton, Leo., London. Genealogical table showing the English system of heraldry. 854
26. Decorative Art Journals Co., Ltd., Manchester. "Journal of Decorative Art" and technical publications, sketches and studies. 856
27. Engineering, Ltd., London. Set of 54 volumes, framed engravings and album of the Columbian Exposition. 854
28. Engineer, London. Engravings and drawings of ships, locomotives, etc. 854
29. Fine Art Society, London. Reproductions of pictures in mezzotint, etching and photo-engraving. 854
30. Hadfield, R. A., Sheffield. Book on the labor question. 854
31. Hare & Co., Ltd, London. Color-printing, photomechanical blocks in half tone, wood engravings and drawings. 854
32. Harrison & Son, London. Books. 854
33. Johnston, W. & A. K., Edinburgh. Wall maps, atlases, globes, etc. 864
34. Leng, John, & Co., Dundee. Books. 854
35. London Color Printing Company, London. Specimens of color printing and of the "Million" newspaper. 854

GREAT BRITAIN.

36. Over, George E., Rugby. Printed books. 854
37. Schloss, David F., London. Books. 854
38. Sell, Henry, London. Collection of newspapers. 854
39. Smith, C. & Son, London. Maps and globes. 864
40. Tooth, Arthur & Sons, London. Engravings and etchings. 854
41. Trippin, J., London. Books on horology. 854
42. Tuck, Raphael, & Sons, London. Studies, illustrated books, engravings, etc. 854
43. Virtue, J. S. & Co., Ltd., London. Etchings, engravings and photogravures from "Art Journal." 854
44. Waterlow & Sons, Ltd., London. Specimens of printing from steel and copper plates. 854
45. Zaehnsdorf, Joseph, London. Book-binding. 854
- GROUP 151.**
46. Baker, A. P., Manchester. Photographs of the Royal Jubilee Exhibition, Manchester, 1887, Paris Exhibition 1889, and Jamaica Exhibition, 1891. 871
47. Beck, R. & J., London. 871
a Photographic apparatus. 871
b Microscopical optical apparatus. 874
48. Billington, H. & Co., Augatella, Queensland. Photographs of Queensland sheep and cattle stations. 871
49. Brown Bros., Bristol. Level and gradient indicator. 868
50. Bryer, J. & Son, London. 867
a Binnacle and compasses, binocular glasses and sextants. Dept. G 867
b Barometers. 872
c Chronometers. 873
51. Byrne, W. J., Richmond. Photographic portraits. 871
52. Cameron & Smith, London. Photographs of Lord Tennyson and his friends. 871
53. Common, A. A., London. Parabolic mirror in cell for Newtonian telescope. 866
54. Darton, F. & Co., London. Meteorological instruments. 872
55. Dore, J., Sandown. Photographic lantern transparencies. 871
56. Downer, Fredk., Watford. Photographs. 871
57. Flather, Henry, London. Carbon enlargements and direct photographs. 871
58. Godbold, Henry J., Hastings. Photographs. 871
59. Goldsmiths' & Silversmiths' Co., London. Ship's chronometers. 873
60. Grubb, Howard, Dublin. Model of first-class astronomical observatory; small equatorial instrument; views of standard instruments. 866
61. Lafayette, J., Dublin. Photographs printed in platinum and carbon. 871
62. Lawrence, William, Dublin. Photographic views of scenery and antiquities of Ireland. 871
63. Lemere, Bedford, & Co., London. Architectural photographs of modern English mansions? 871
64. Mendelssohn, H. S., London. Portraits. 871
65. Oeffelein & Co., London. Burnt-in photographs on glass, china and enamel. 871
66. Rein, F. G., & Son, London. Acoustic and scientific instruments. 876
67. Riley Bros., Bradford. Optical lanterns and accessories. 874
68. Roche, Charlotte, London. Photographs. 871
69. Ross & Co., London. 871
a Photographic lenses, cameras and apparatus. 871
b Naval and sporting telescopes, field and opera glasses, microscopes and apparatus. 874
70. Royal British Commission. Loan collection of photographs. 871
71. Sawyer, Lyddell, Newcastle-on-Tyne. Photographs. 871
72. Symonds & Co., Portsmouth. Photographs of ships of the British navy and yacht racing scenes. 871
73. Van der Weyde, Henry, London. Portraits taken by electric light, and refracting instrument. 871
74. Walery, Ltd., London. Photographic work. 871
75. Warneuke, W. M., Glasgow. Photographs. 871
76. Watson, W., & Sons, London. 865
a Mathematical instruments. 865
b Astronomical and terrestrial telescopes. 866
c Surveying and engineering instruments. 867
d Photographic lenses and cameras. 871
e Barometers and thermometers. 872
f Microscopes and microscopical apparatus and accessories. 875
77. Werner, Alfred, & Son, Dublin. Photographic portraits. 871
78. Wilkinson, Henry D., Cardiff. Instrument to indicate the action of valves in steam and other engines. 865
79. Williams, W. Clement, Yorkshire. Photographs. 871
80. Window & Grove, London. Photographs. 871
81. Winter, W. W., Derby. Photograph studies. 871
82. York & Son, London. Photographic optical lantern-slides. 871
- GROUP 152.**
83. Allin, Samuel S., London. Pneumatic door closer. 889
84. British Government, Geological Survey of the United Kingdom, London. Maps of Isle of Wight, environs of London, part of North Wales, part of the Yorkshire coal-fields, North of Ireland and South of Scotland. Index maps of neighborhood of London and lower part of Thames basin, and part of Wales. General memoirs on the geology and paleontology of Great Britain. 877

DEPARTMENT L.—LIBERAL ARTS.

85. British Government, Ordnance Survey of Great Britain and Ireland, Southampton. Outline and hill maps of parts of Scotland and Ireland; other maps and plans. 877
86. Cheesewright, Frederick H., London. Model of system of pier and break-water construction. 881
87. Culpin, Arthur, Worcester. Reversible and removable window sashes. 889
88. Ebner, Joseph F., London. System of attaching parquet flooring to a concrete foundation. 889
89. Etefas Window Co., London. Sliding windows. 889
90. Sim, John, Montrose. Windows. 889
91. Trinity College, University of Dublin. Model of shield used in constructing the Thames tunnel. Dept. G 881

GROUP 153.

92. British North Borneo Co., London. Stamps and postcards. 893
93. Bureau of Charities, Correction and Philanthropy. Charts, samples of work, official statistics, reports, literature, etc. 894
94. Gibbons, Stanley, Ltd., London. Stamps, stamp-albums, etc. 893
95. Hinton, Thomas H., London. Postage stamps, envelopes and cards issued in the British empire from 1840 to 1893. 893
96. Perkins, Bacon & Co., Ltd., London. Specimens of postage stamps. 893

GROUP 154.

97. British North Borneo Co., London.
a Map and handbook of British North Borneo. 895
b Coins. 897
98. Drew & Cadman, London. Show cases, counters and window fittings. 898
99. Perkins, Bacon & Co., Ltd., London. Specimens of bank notes. 897

GROUP 155.

100. Hakluyt Society, London. Publications from 1848 to 1892. 908
101. Marine Biological Ass'n of the United Kingdom, London. Treatise on the common sole; view of the laboratory and account of the association. 908
102. Royal Geographical Society, London. Publications illustrating the advancement of geographical science; a map showing English discovery in North America. 907
103. Royal Microscopical Society, London. Photo-micrographs. 908
104. Vegetarian Federal Union, London. Publications, diagrams and specimens. 908

GROUP 156.

105. Bradford Coffee Tavern Co., Ltd., Bradford. Views of the principal establishment, and account of the work. 918

GROUP 157.

106. Religious Tract Society, London. Books, periodicals and Scripture cartoons. 919
107. Sunday School Union, London. Sunday-school teachers' text-books and requisites. 923

GROUP 158.

108. Augener & Co., London. Printed music books, portraits of great composers, etc. 926
109. Besson, F. & Co., London. Wind instruments and system of manufacture. 931-935
110. Bishop, E. & Sons, London. Upright pianofortes. 930
111. Erard, S. & P., London. Models of harps; the harp presented by the Welsh people to H.R.H. the Prince of Wales, etc. 930
112. Higham, Joseph, Manchester. Musical instruments. 930
113. Rudall, Carte & Co., London. Military and orchestral instruments. 930

ITALY.

GROUP 147.

1. Di Giovanni, Eng. Ferdinando, Naples. Closet apparatus. 829
2. Magnani, Gustavo, Mirandola. Sulphurizing and purifying machines. 829

GROUP 148.

3. Bergamini, Enrico, Bologna. Surgical instruments. 837
4. Brunetti, Prof. Lodovico, Padua. Anatomical appliances. 838
5. Pozzi, Dr. Muzio, Bologna. Obstetrical instrument. 838

GROUP 149.

6. Benedetti, Giovanni, Udine. Drawing tables. 846
7. Humbert First Public School, Naples. Album of drawings. 846
8. Testi, Prof. Laudedeo, Lodi. Work on drawing. 846

9. Tonso, Giovanni, Turin. Work on penmanship. 842
10. Trevisani, Prof. Romolo, Rimini. Work on drawing. 846

GROUP 150.

11. Abisso, Gioacchino, Vicenza. Mechanical works. 854
12. Arnandon, G. Giacomo, Turin. Work on museum designs. 854
13. Bianchi-Maldotti, Eng. Enrico, Parma. Hydraulic manual. 854
14. Borgna de Rossi, Giulio, Turin. School manual. 855
15. Borgna, Prof. Giuseppe, Turin. Work on education. 854
16. Brogi, Cav. Sigismondo, Siena. Scientific works. 854
17. Bullo, Dr. G., Venice. Atlas. 855
18. Cassa, Risparmio, Rimini. Banking laws. 854

ITALY.

19. Cisogh, Gioacchino, Rome. Mono-graphic works. 854
 20. Collegio Parrucchieri, Rome. College regulations and laws. 854
 21. Colucci, Giuseppe, Rome. Books. 854
 22. Cosulich, Cleto, Syracuse. French manual. 855
 23. Cuomo, Giuseppe, Santimo. School books. 855
 24. De Laurentis, Carlo, Rome. Biblical abstract. 854
 25. De Luca, Carnazza Salvator, Catania. Scientific volumes. 854
 26. Durante, Filippo, Palermo. Manual of the tailor's art. 854
 27. Fabbrichesi, Gaetano, Rome. Geometrical designs. 855
 28. Facchinetti, Dr. Gaetano, Rimini. A monograph. 854
 29. Fazio, G. B., Genoa. History. 854
 30. Ferrari, Cav. Luigi, Genoa. Books. 854
 31. Frisoni, Gaetano, Genoa. Books. 854
 32. Giordano, Dr. Alfonso, Palermo. Books. 854
 33. Gulinati, Vittorio, Bondeno Ferrarese. Manuscripts. 854
 34. Hoepli, Ulderico, Milan. Books. 854
 35. Lancia, Giuseppe, Turin. Butchers' manual. 854
 36. Manganaro, Catterina, Messina. Statistical works. 854
 37. Moneti, Cav. Giuseppe, Rome. Joiners' manual. 854
 38. Monterosso, Prof. Raffaele, Syracuse. French books. 854
 39. Moscariello, Giuseppe, Naples. Works on education. 854
 40. Olia, Prof. Ferdinando, Naples. Geography. 855
 41. Ongania, Cav. Ferdinando, Venice. History of St. Mark's church. 854
 42. Piscicelli, Aderisio, Casterta. Paleography. 854
 43. Raddi, Anserico, Spezia. Books and drawings. 854
 44. Rosati, Vincenzo, Rome. Work on instruction. 854
 45. Roux, Onorato, Rome. Books. 854
 46. Scafati, Giuseppe, Naples. Drawings of torpedoes. 854
 47. Scaraviglia Torquato, Chieti. Album. 854
 48. Schiff, Paolina, Milan. Books. 854
 49. School of Commerce, Naples. Books. 854
 50. School of Prof. Valdesi, Genoa. Educational publications. 854
 51. Staderini, Aristide, Rome. Books. 854
 52. Tamburini, Stanislao, Rome. Geometrical drawings. 855
 53. Technical Institute, Lodi. Album of drawings. 854
 54. Tono, Prof. Massimiliano, Venice. Astronomical publications. 854
 55. Treves Bros., Milan. Illustrated papers. 857
 56. Turin Typographical Union, Rome. Books. 854
- GROUP 151.**
57. Alinari Bros., Florence. Photographs. 871
 58. Anderson, Domenico, Rome. Photographs. 871
 59. Capitanio, Cristoforo, Brescia. Photographs. 871
 60. Carloforti, Gabriele, Rome. Photographs. 871
 61. Casali, Lorenzo, Rome. Photographs. 871
 62. Fatti, Odoardo, Rome. Instruments of precision. 865
 63. Ferretto, Adelchi di G., Treviso. Photographs. 871
 64. Koriska Francesco Company, Milan. Microscopes. 874
 65. Mazzocchi, Girolamo, Bologna. Astronomical machine. 866
 66. Naya, Carlo, Venice. Photographs. 871
 67. Paganini, Cristiano, Vicenza. Perpetual motor clock. 873
 68. Primoli, Count Luigi, Rome. Photographs. 871
 69. Salmoiraghi, A., Milan. Scientific instruments. 867
 70. Salivati, Paolo, Venice. Photographs and aquarelles. 871
 71. Sciortino, Leo Nicolò, Palermo. Instruments of precision. 865
 72. Uzzo, Fran. Paolo, Palermo. Photographs. 871
- GROUP 153.**
73. Iovene, Giuseppe, Naples. Mail Box. 893
 74. Neapolitan Economic Association, Naples. Statutory acts. 890
- GROUP 154.**
75. Amoretti, Andrea, Finalborgo. Commercial accounting. 905
 76. Chamber of Commerce, Catania. Statistics. 895
 77. Chamber of Commerce, Modena. Account books. 900
 78. De Angelis, Angelo, Lanciano. Treatise on accounts. 905
 79. Genoa Savings Bank, Genoa. Accounts. 905
 80. Lai, Prof. Enrico, Genoa. Accounting. 905
 81. Monte di Pietà, Genoa. Accounts. 905
 82. Pareto, Leodoro, Turin. Account books. 905
 83. Sanguinetti, Achille, Parma. Book-keeping. 905
 84. Sarno, Nicola, Albano Laziale. Account books. 905
 85. Stella, Prof. Antonio, Naples. Book-keeping. 905
 86. Technical Institute, Caserta. Accounts. 905
 87. Workmen's Co-operative Bank, Sini-gallia. Banking laws. 903
 88. Zambonini, Giuseppe, Finale Emilia. Book-keeping. 905
- GROUP 156.**
89. Mutual Beneficial Society Citta di Castello. Report. 914
 90. Teachers' Mutual Benefit Society, Rome. Report. 914
- GROUP 157.**
91. Quirini Quirino, Rome. Work on charities. 925

DEPARTMENT L.—LIBERAL ARTS.

GROUP 158.

92. Abbate, Alfonso F., Naples. Musical instruments. 928
93. Battista, Luca, Maori. Musical score. 926
94. Bella Eredi Company, Verona. Harmonic strings. 936
95. Bertinelli, Alessandro, Rome. Musical instruments. 928
96. Buonamici, Ferdinando, Naples. Musical scores. 926
97. Brancaccio, Marquis, Giuseppe, Naples. Violin. 929
98. Calace, Nicola Raffaele, Naples. Mandolins. 928
99. Carraba, C. V., Catania. Musical instruments. 928
100. Colombo, Federico, Turin. Piano fortes. 930
101. Cozzi, Ersilio, Crespino. Musical instruments. 928
102. Degani, Eugenio, Venice. Violins. 929
103. Del Nero, Angelo, Rome. Musical manuscripts. 926
104. Di Giorgio, Salvatore & Giuseppe, Termini Imerese. Stringed musical instruments. 928
105. Di Leo, Cammillo, Palermo. Mandolin. 928

106. Di Napoli, Cav. Giovanni, Palermo. Musical compositions. 926
107. Gamberini, Bernardo, Bologna. Music. 926
108. Giorgi, Carlo Tommaso, Florence. Musical instruments. 928
109. Gorga Bros., Rome, Italy. Stringed musical instruments. 928
110. Kisslinger, Cav. A. C., Naples. Stringed musical instrument. 928
111. Koriska-Jamnichen, Milan. Mandolins. 928
112. Lo Galbo, Provvidenza, Salerno. Musical works. 926
113. Marradi-Benti, Pistoja. Cymbals. 927
114. Mancuso, Piazza Giuseppe, Castrogiovanni. Music. 926
115. Mendoza, Gennaro, Naples. Mandolins. 928
116. Petillo, Giovanni, Naples. Music. 926
117. Rocca, Enrico, Genoa. Musical instruments. 928
118. Ruggiero, Cesare, Naples. Musical instruments. 928
119. Sgarbi, Antonio, Rome. Musical instruments. 928
120. Toscano, Marotta Angelo, Aidone. Musical instruments. 928

JAMAICA.

GROUP 148.

1. Batson, S., Mandeville. Sarsaparilla. 834
2. Ormsby, J., Cave Valley. Stramonium seeds. 834
3. Silvera, A. P., Crescent, Oracabessa. Kola powder and nuts. 834
4. Taylor, G. G., Hagley Gap. Cinchona roots. 834

GROUP 149.

5. Alpha Cottage, Convent of Mercy, Kingston. Straw work. 843
6. Provincial Government of Nova Scotia, Halifax. Educational system. 850

GROUP 150.

7. Feurtado, W., Kingston. History and laws of Jamaica. 854
8. Government Printing Office, Kingston. Law books and maps of Jamaica. 863

9. Hart, A. J., Senior, St. Ann's Bay. Very old Hebrew bible. 854
10. Registrar General's Department, Spanish Town. Vital statistics of Jamaica, census report, 1891. 863

GROUP 151.

11. Duperly & Co., Kingston. Views of Jamaica. 871
12. Gardner, A. W., & Co., Kingston. Photographs of Jamaica scenery. 871
13. Johnston, Rev., Brown's Town. Views of Central Africa. 871
14. Sanguinetti, E. H., Kingston. Views of Jamaica International Exhibition, 1891. 871

GROUP 154.

15. De Souza, Mortimer C., Kingston. Commercial almanacs. 895

GROUP 160.

16. Douet, Geo. A., Four Paths. Carib implements. 943

JAPAN.

GROUP 147.

1. Interior Department, Public Sanitary Bureau. Photographs and description of disinfector. 833
2. Seibei Yuga, Osaka. Model of Ten-noji Temple tower. 827

GROUP 148.

3. Asajiro Narita, Tokyo. Surgical instruments. 837
4. Fuchi Segewa, Tokyo. Instruments for physical diagnosis. 836
5. Ichizaemon Matsumoto, Tokyo.
 - a Instruments for physical diagnosis. 836
 - b Surgical instruments. 837
6. Kotaro Sasaki, Tokyo. Artificial teeth. 839
7. Kuhei Mangi, Tokyo. Surgical instruments. 837
8. Kyoto Itomono Company, Kyoto. Twist for surgical purposes. 837
9. Matsunosuke Shirai, Osaka. Medical balances. 837
10. Shigetaro Baba, Aichi. Pharmaceutical articles. 837
11. Shigetaro Baba, Aichi. Optical instruments. 837
12. Tadazo Wakabayashi, Tokyo. Bureau for dental instruments. 839
13. War Department. Medical Bureau.
 - a Appliances for carrying the wounded. 840
 - b Surgical instruments, etc. 837
14. Yakichi Horiguchi, Tokyo. Instrument for dental surgery. 839
15. Yoshitsura Okochi, Tokyo. Ice bags. 834

GROUP 149.

16. Educational Department. Educational reports, text books and diagrams of school buildings. 853
17. Educational Department. Agricultural School. Pictures, farm products, books, drawings, records and descriptions. 851
18. Educational Department. College of Agriculture, Imperial University. Specimens of fruit, photographs, reports and statistics. 852
19. Educational Department. College of Engineering, Imperial University. Model of building, essays and drawings. 851
20. Educational Department. Commercial School. School appliances, pictures, records, rules, regulations and statistics. 852
21. Educational Department. Common Middle School. School apparatus, drawings, photographs, paintings, records, etc. 842
22. Educational Department. Common Normal School. School apparatus, needle work, drawings, paintings, photographs, records, etc. 852

23. Educational Department. Educational Society of Japan. Rules and regulations. 853
24. Educational Department. Elementary School. Photographs, school apparatus, paintings, records, drawings, needle work, etc. 841
25. Educational Department. Girls' Normal School. School appliances, needle work, pictures, records and statistics, photographs and drawings. 851
26. Educational Department. Girls' Higher School. Records, rules, needle work, drawings, school appliances, photographs, paintings and essays. 851
27. Educational Department. Girls' School. Hand made articles, needle work, pictures and photographs. 850
28. Educational Department. Higher Commercial School. Counting book, etc. 852
29. Educational Department. Higher Middle School. Records and statistics, photographs, paintings and specimens. 851
30. Educational Department. Higher Normal School. Hand made articles and pictures. 851
31. Educational Department. Kindergarten. Records and statistics. 841
32. Educational Department. Tokyo Art School. Paintings, carvings, art goods and designs. 852
33. Educational Department. Tokyo Blind and Mute School. Pictures, carvings, needle work, school appliances, photographs and records. 849
34. Educational Department. Tokyo Technological School. Exhibits of the dyeing and weaving, pottery and glass, applied chemistry and mechanical industry departments, drawings and paintings. 852
35. Educational Section of Tokyo Machinery Company, Tokyo. School specimens. 845
36. Kanzaburo Shimidzu, Tokyo. Chemical chinaware. 845
37. Kisai Takayama, Tokyo. Organization and report of Takayama Dental School. 852
38. Norimichi Okabe, Osaka. Writing slate. 846

GROUP 150.

39. Hakodate Manufacturing & Trading Company, Hokkaido. Trade statistics and price list. 860
40. Hakodate Trading & Manufacturing Association, Hokkaido.
 - a Directory of cities and towns. 862
 - b Maps. 864
41. Interior Department—Central Meteorological Office. Meteorological history, descriptions, reports, etc., map and diagram showing location of weather stations, storm bulletins and light houses, diagram show-

DEPARTMENT L.—LIBERAL ARTS.

- ing storms, indications on thermometer and barometer, quantity of rain; earthquakes, etc. 864
42. Interior Department—General Affair Bureau. Tables of Japanese population and copyrights. 863
43. Jihei Tanaka, Kyoto. Pictorial arts and designs. 854
44. Kenzaburo Azuma, Tokyo.
a Art magazines. 854
b Geological maps. 864
45. Kokkwasha, Tokyo. Art magazines. 854
46. Kosuke Sakata, Hyogo. Notes on the abacus and abacuses. 854
47. Kininosuke Soma, Tokyo. Book on ivory carving. 854
48. Magobei Fujii, Kyoto. Pictorial art books. 854
49. Magobei Okura, Tokyo. Books. 854
50. Tokutaro Kimura, Tokyo. Book. 854
51. Tokutaro Wada, Tokyo. Books. 854
52. War Department. Surveying Office. Maps. 864

GROUP 151.

53. Commercial and Manufacturing Bureau, Japan. Testing machines of weights and measures. 865
54. Educational Department.—College of Science, Imperial University. Seismological instruments and photographs. 866
55. Gonjiro Yamamoto, Aichi. Abacus. 865
56. Hikoma Ueno, Nagasaki. Photographs. 871
57. Kazunao Ogawa, Tokyo. Photographs. 871
58. Makoto Endo, Miyagi. Photographs. 871
59. Rihachi Fukada, Tochigi. Photographs. 871
60. Rihei Tomishige, Kumamoto. Photographs. 871
61. Ryonosuke Honjyo, Hyogo. Abacuses. 866
62. Sauta Ichida, Hyogo. Photographs. 871
63. Shinichi Setsu, Nagasaki. Photographs. 871
64. Sinsuke Mihara, Tokyo. Magic lantern slides. 871
65. Takeyasu Kiyokawa, Nagasaki. Photographs. 871
66. Tamekichi Ito, Tokyo. Rulers. 865
67. Tamekichi Kamiya, Shiga. Sun dial. 873
68. Tomozo Watanabe, Tokyo. Photographic accessories. 871
69. Yasuo Egi, Tokyo. Photographs. 871
70. Yoshiharu Takeshita, Nagasaki. Photographs. 871

GROUP 152.

71. Interior Department.—Public Engineering Bureau. Models and diagrams. 877

72. Kiesuke Niwa, Kyoto. Model of Kyoto Yasaka tower. 889
73. Kobe Wharf Construction Company, Hyogo. Plan of wharf construction. 889
74. Shiotaro Kodama, Aichi. Architectural designs. 889
75. Tamekichi Ito, Tokyo. House models. 889
76. War Department.—Military Affair Bureau. Photographs of guns and arsenal. 886

GROUP 153.

77. Bureau of Peers of Imperial Diet. Method of short-hand reporting. 890

GROUP 154.

78. Department of Communication. Postal system and appliances of the postal service; mail bags, pouches, postal marks, stamps, etc.; maps and tables showing light houses, lines of navigation, etc.; maps, diagrams, tables, etc., of telegraph routes, stations and apparatus; photo of telephone office and brief history of the department. 893
79. Interior Department.—Bureau of Police. Diagram of Tokyo reformatory building, records of prisons. 894

GROUP 155.

80. Commercial and Manufacturing Bureau.
a Statistics of trade and commerce of Japan and guide book. 895
b Boards of commerce and their functions illustrated. 900
81. Kyoto Board of Trade, Kyoto. Organization of Board of Trade with illustrations. 900
82. Treasury Department—Mint Bureau. Coins and medals. 897
83. Zenemon Konike, Osaka. Rules and statistics of life insurance companies. 902

GROUP 156.

84. Educational Department—Educational Museum. Models and specimens, toys, pictures and magic lantern accessories. 909

GROUP 158.

85. Dembei Nakagaki, Osaka. Musical instruments. 929
86. Educational Department. Tokyo Musical School. Musical instruments, pictures, descriptions, books, etc. 926
87. Gembei Sakata, Osaka. Drums. 927
88. Jisaburo Fujita, Osaka. Musical Instruments. 936
89. Masakichi Suzuki, Aichi. Violin. 929
90. Shinsuke Sasatani, Osaka. Musical instruments. 936
91. Tsunesaburo Ena, Osaka. Trumpets. 933

NORWAY.

GROUP 147.

1. Bentzen, S., Bergen. Filter.
Dept. H 829

GROUP 148.

2. Eckell, W. F. W., Christiania. Malt extract, emulsion of cod liver oil.
Dept. H 834
3. Stormer, F., Christiania. Inhalers.
Dept. H 837
4. Tidemand's Orthopædical Institute, Christiania. Photos of prosthesis.
Dept. H 838

GROUP 149.

5. Brun's, A., Boghandel, Trondhjem. Zoological drawings for school use, with plans and notes.
Dept. H 845
6. Johannesen, Amalia, Christiania. Books on sewing and dressmaking.
Dept. H 843
7. Mallings, P. T., Boghandel, Christiania. Collection of school material for instruction.
Dept. H 842
8. Pedusen, Gustav, Meaux, France. Text book on watchmaking.
Dept. H 847
9. Rosing, Marie, Christiania. Books on dressmaking and needle work.
Dept. H 843
10. Thommesen, Tarje, Christiania. Drawings, and desk for deaf mutes.
Dept. H 849

GROUP 150.

11. Cammermeyer's, Forlag, Alb, Christiania.
Dept. H
- a* Publications. 854
- b* Maps. 864
12. Central Bureau of Statistics, Christiania. Collection of publications on Norwegian statistics.
Dept. H 863
13. Dybwad, Jacob, Christiania.
 a Road map of Norway. Dept. H 864
- b* School books. 855
- c* Books, sample of binding, etc. 854
14. Folkebladets Aktiebolag, Christiania. Books.
Dept. H 854

15. Krag, Commissioner of highways, Christiania. Geographical maps.
Dept. H 854

16. Mallings, P. T., Boghandel, Christiania. Books.
Dept. H 854
17. Meteorological Institute, Christiania. Reports and charts of arctic expeditions.
Dept. H 864
18. Refsum, Hans Matheus, Christiania. Bookbinders' work.
Dept. H 854

GROUP 151.

19. Bennett's Tourist Office, Christiania. Photos of scenery, etc.
Dept. H 871
20. Greve & Nordland, Stavanger. Photographs.
Dept. H 871
21. Knudsen, K., Bergen. Photographs.
Dept. H 871
22. Michelet, Fr. Aug., Christiania. Chronometers.
Dept. H 873
23. Persen, Sostrene, Bergen. Photographs.
Dept. H 871
24. Skoien, M., Christiania. Photographs.
Dept. H 871

GROUP 152.

25. Lindgaard, Henry, Trondhjem. Maps, surveys and drawings.
Dept. H 877
26. Thams, M., & Co., Trondhjem. Plans of dwelling houses, wooden buildings for export. In Norway's pavilion. 889

GROUP 154.

27. Dietrichson, J. L. W., Molde. Statistical maps of mining and commerce.
Dept. H 895

GROUP 158.

28. Auversen, Sviening, Telemarken. Violins.
Dept. H 929
29. Ellefsen, Kund, Telemarken. Violin.
Dept. H 929
30. Helland, Gunder Olsen, Telemarken. Violin.
Dept. H 929
31. Helland, Ole G., Telemarken. Violin.
Dept. H 929
32. Hovdestad, Osten Bjornsen, Telemarken. Violin.
Dept. H 929
33. Lofthnus, Bjorn, Vinje. Violin.
Dept. H 929

SWEDEN.

GROUP 147.

1. Aktiebolaget Vibrator, Stockholm. Vibrator movement cure apparatus. 825
2. Ekstrand, E. G., Stockholm. Gymnastic apparatus. 825
3. Gymnastiska Centralinstitutet, Stockholm. Gymnastic implements, photographs, drawings, etc. 825
4. Passe, Nils, Boston. Gymnastic apparatus, drawings and photographs. 825
5. Stockholms Gymnastikforening, Stockholm. Gymnastic apparatus, photographs and literature. 825
6. Stockholms Gymnastik och Faektklubb, Stockholm. Fencing materials, literature and photographs. 825

GROUP 148.

7. Engstrom, Joh., Eskilstuna. Universal dental forceps. 839

GROUP 149.

8. Alnarps Hofbeslagareskola, Akarp. Material for instruction in horse-shoeing. 847
9. Hallgren & Sundell, Stockholm. Plastic reproductions of mushrooms, for use in public schools. 850
10. Hushallningssallskapet i Bleking, Bleking. Articles of wood, bone, textiles, etc.; models of wood and sloyd work. 847

DEPARTMENT L.—LIBERAL ARTS.

11. Lennings, John, Norrköping. Specimens of silk and gold hangings by pupils. 847
 12. Lundin, Hulda, Stockholm. Models of system of teaching needle work in schools. 843
 13. Melander, A. E., Stockholm. Kalkograph for tracing drawings and making blue-prints. 852
 14. Naas Slöjdlarareseminarium, Naas. Models, charts, literature, photographs, etc., of sloyd carpentry. 844
 15. Tekniska Skolan i Eskilstuna, Eskilstuna. Articles of steel, chased, etched and forged by pupils of the school. 847
 16. Tekniska Skolan, Stockholm. Drawings, models and pupils' work in metal, wood, leather, porcelain, glass, clay, etc.; decorative painting. 847
- GROUP 150.**
17. Beijers, F. G., Bokforlagsaktiebolag, Stockholm.
 a Books and prints. 854
 b Maps. 864
 18. Bonnier, Albert, Stockholm. Books and prints. 854
 19. Dahlman, C. E. Stockholm. Atlas of Sweden. 864
 20. Fahlcrantz & Co., Stockholm. Books. 854
 21. Fritzes, C. E., Stockholm. Books. 854
 22. Generalstabens Topografiska Afdelning, Stockholm. Topographic maps, astronomic and geodetic works. 864
 23. Horlin, Hugo, Stockholm. Industrial Art Journal. 856
 24. Kongl. Sjökarteverket, Stockholm. Charts and coast views. 864
 25. Mittag-Leffler, G., Stockholm. "Acta Mathematica," a scientific journal. 856
 26. Norstedt, P. A., & Sons Co., Stockholm.
 a Scientific works. 854
 b School books. 855
 c Materials for instruction, atlas. 864
 27. Sveriges Ekonomiska Kartverk, Stockholm. Topographic maps, books, etc. 864
23. Sveriges Geologiska Undersökning, Stockholm. Geological maps and publications. 864
- GROUP 151.**
29. Ahlberg & Ohlsson, Stockholm. Surveying instruments. 867
 30. Aktiebolaget Mars, Stockholm. Range finder for military and topographical surveying. 867
 31. Blomquist, C. G., Lulsa. Photographs. 871
 32. Generalstabens Topografiska Afdelning, Stockholm.
 a Astronomic instruments. 866
 b Geodetic instruments. 867
 33. Hadar Hallströms Knäffabriks Aktiebolag, Eskilstuna. Mathematical instruments. 867
 34. Jonason, A., Göthenburg. Photographs. 871
 35. Linderöth, G. W., Stockholm. Chronometers. 873
 36. Olsson, A., Östersund. Photographs. 871
 37. Olsson, O., Östersund. Photographs. 871
 38. Sammland, R., Stockholm. Photographs. 871
 39. Sjöberg, Axel, & Co., Karlsborg. Photographs. 871
 40. Söhlberg, K. U., Strengnäs. Celestial globes of glass with horizon in liquid. 866
 41. Wahlström & Widstrand, Stockholm. Photographs. 871
- GROUP 152.**
42. Wickman, G., Stockholm. Swedish pavilion. 889
- GROUP 154.**
43. Eskilstuna Trafikadlingsfabriks Aktiebolag, Eskilstuna. Show case. 898
- GROUP 155.**
44. Lindell, Per., Stockholm. Collection of autographs and portraits. 909
- GROUP 158.**
45. Ahlberg & Ohlsson, Stockholm. Brass musical instruments. 934
 46. Bystrom, Prof. O., Stockholm. Hymnology and music. 926
 47. Hagdahl, Joh., Karlskrona. Piano. 930

SWITZERLAND.

GROUP 150.

1. Kronecker, Dr., Berne. Scientific exhibits. 854

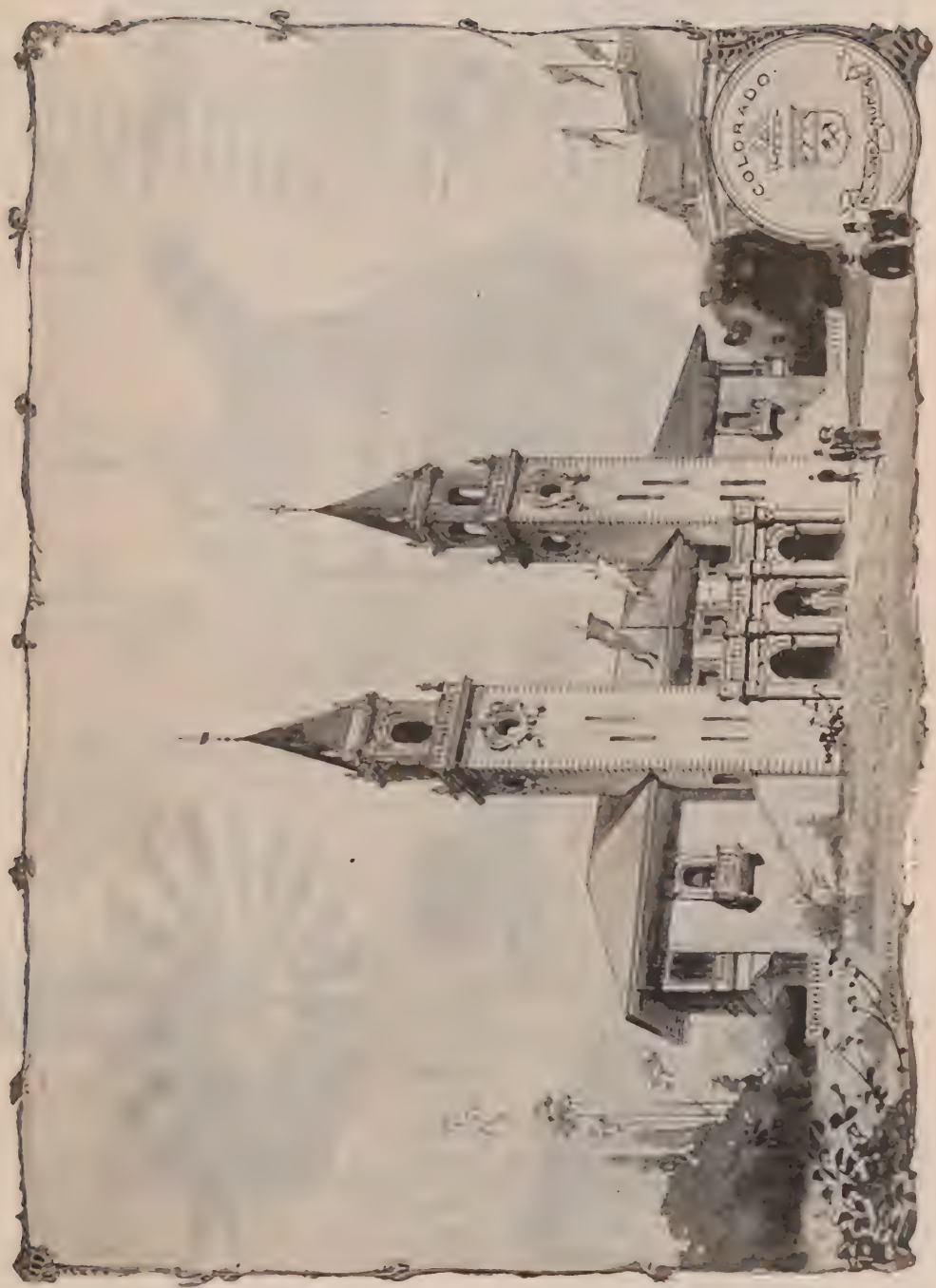
GROUP 151.

2. Boissonas, Fréd., Geneva. Photographs. 871
3. Kern & Co., Aarau. Physical instruments. 867
4. Siegrist, J. & Co., Schaffhausen. Physical instruments. 867

5. Société pour la Construction d'Instruments de Physique, Geneva. Physical instruments. 867

GROUP 158.

6. Langdorff & Fils, Geneva. Musical boxes. 927
7. Mermod freres, Ste. Croix. Musical boxes. 927



COLORADO STATE BUILDING.

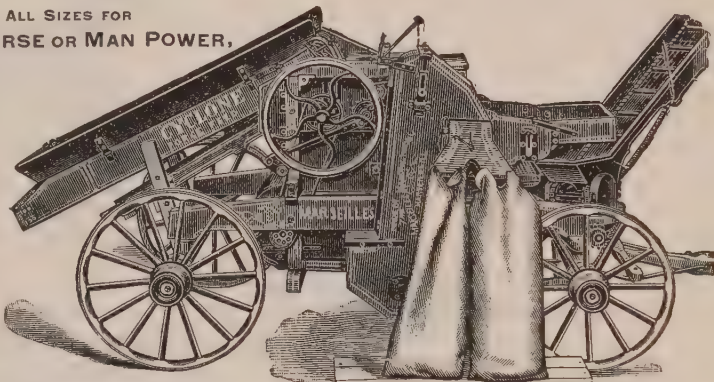
EXPORT OFFICE.
69 BEEKMAN STREET,
NEW YORK CITY.



MARSEILLES CORN SHELLERS

OF ALL SIZES FOR
STEAM, HORSE OR MAN POWER,

WITH
CAPACITY OF
FROM
25 TO 600 BU.
OF
SHELLED CORN
PER HOUR
ACCORDING TO
SIZE OF
MACHINE



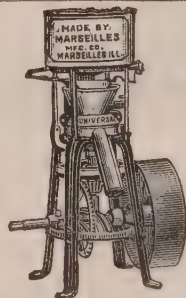
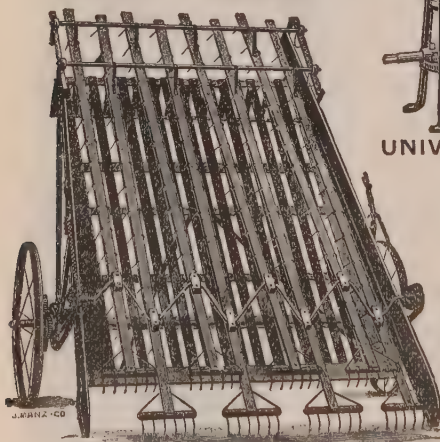
WE ARE
MAKERS OF
THE
LARGEST LINE
OF
CORN
SHELLING
MACHINERY
MANUFACTURED
IN THE
UNITED STATES

Our Shellers are known everywhere to be the simplest, strongest and fastest Shelling Machines on the market, and can be operated with 25 PER CENT. less power than any other.

We also make the ADAMS-SHUCK-SHELLERS for shelling corn either with the husk on or off, and HORSE-POWERS to match all Shellers.

OUR HAY LOADER

WILL BE
FOUND TO BE A FIRST-CLASS
LABOR SAVER
IN ALL COUNTRIES WHERE HAY
IS LOADED ON WAGONS.



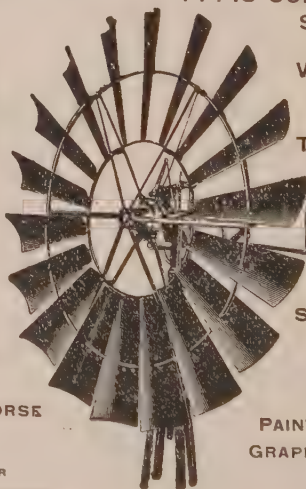
UNIVERSAL,
SUCCESS,
AND
ADAMS
FEED
GRINDERS
FOR
STEAM OR HORSE
POWER.

ASK FOR OUR
COMPLETE CATALOGUES

OUR LINE OF . . .

WINDMILLS

. . . IS COMPLETE.
STEEL
AND
WOODEN
MILLS
AND
TOWERS.



STEEL
MILLS
AND
TOWERS
PAINTED WITH
GRAPHITE
PAINT.



HOME OFFICE AND FACTORY, MARSEILLES, ILL.

75 MILES, OR A 3 HOURS' RIDE FROM WORLD'S COLUMBIAN EXPOSITION.

CHICAGO OFFICE, 600 S. MORGAN ST.

MONTAGUE & FULLER,

. . . LATEST IMPROVED . . .

Bookbinders' Machinery

GENERAL AGENTS FOR THE SALE OF

THE SMYTH BOOK SEWING MACHINES,
THE GHAMBERS BOOK FOLDING MACHINES,
THE ELLIOTT THREAD STITCHING MACHINES,



THE ACME PAPER CUTTING MACHINES,
THE GHRISTIE BEVELING MAGHINES,
THE AUTOMATIG PAPER FEEDING MACHINES,



THE ELLIS ROLLER BAGKER,
THE ELLIS BOOK TRIMMER,
THE UNIVERSAL WIRE STITCHING MAGHINES,



THE SEYBOLD AUTOMATIG BOOK TRIMMER,
THE HERGULES SIGNATURE PRESS,
THE "CAPITAL," "CRITERION" AND "MONARCH"
PAPER CUTTING MAGHINES,

THE LIEB ROD EMBOSSERS, INKERS AND SMASHERS,
ARGH EMBOSSERS, INKERS AND SMASHERS,

AND A FULL LINE OF

Bookbinders' and Printers' Machinery

THREAD, TAPE, WIRE, DUPLICATE PARTS, ETC.



We Guarantee Every Machine we Sell.



28 READE STREET,

NEW YORK.

345 DEARBORN STREET,
82 PLYMOUTH PLACE,

CHICAGO.

MINOT, HOOPER & CO., NEW YORK and BOSTON.

Agents for ( Great Falls Manufacturing Co.,
Dwight Manufacturing Co.
and Lyman Mills.

Bleached and Brown Sheetings and Shirtings, Standard Brown,
Bleached and Blue Drills, Nainsook Checks, Fine Lawns
and Fancy White Goods.

WOOLEN DEPARTMENTS

Under management of 
T. RUSSELL DAWSON.

Dress Goods, Shawls, Cloakings and
other Woolens.

.....ESTABLISHED 1837.....

MOORE & SINNOTT

SUCCESSORS TO
JOHN GIBSON'S SON & CO.

DISTILLERS OF..... FINE WHISKIES
PHILADELPHIA, PA.

DISTILLERIES: GIBSONTON, WESTMORELAND CO., PA.

JEWEL 



GAS, GASOLENE AND OIL STOVES

Made in 113 styles, are exhibited in

MANUFACTURES BUILDING,

Ground Floor, N. E. $\frac{1}{4}$, Section O, Block 3, No. 76.

Visit the exhibit when in the North end of the building.

GEORGE M. CLARK & COMPANY,

MAKERS,

153-161 SUPERIOR STREET,  CHICAGO.



RHODE ISLAND STATE BUILDING.

THE ROESSLER & HASSLACHER



CHEMICAL COMPANY,

73 PINE STREET, NEW YORK.

Chemical Drugs and Ceramic Colors.

CHICAGO OFFICE:

83 AND 87 DEARBORN ST.

WORKS:

PERTH AMBOY, N. J.

N. W. TAYLOR.

GEO. H. TAYLOR.

JAS. T. MIX.

GEO. H. TAYLOR & CO.

WHOLESALE PAPER DEALERS

207 AND 209 MONROE ST., CHICAGO.

WE MAKE A SPECIALTY OF EXTRA SUPER-CALENDERED BOOK PAPER.

Half Tone Paper.
Medium Grade Paper
Fine Machine Finished Paper.
No. 2 Machine Finished Paper.
No. 3 Machine Finished Paper.

Colored Cover Papers.
Document Manila Paper.
Wrapping Paper.
Steel Plate Paper.
Chromo Litho Paper.
No. 2 Plate Paper.

Writing Manila Paper.
Colored Book Paper.
Fine Laid Paper.
Enameled Paper.
Large Sizes of French Folios.

LOUIS DEJONGE & CO.

MANUFACTURERS AND IMPORTERS OF

Lithographic, Glazed, Plated, Fancy Silver and Gold Papers.
Fine Morocco, Russia and other Foreign and
Domestic Leathers.

Pictures, Cards, Laces and Borders, English and American Book Cloth and all Bookbinders' Material.



71 AND 73 DUANE STREET,

P. O. BOX 2553,

NEW YORK.

NORTH PACKING & PROVISION CO.



CABLE ADDRESS, NORTH.

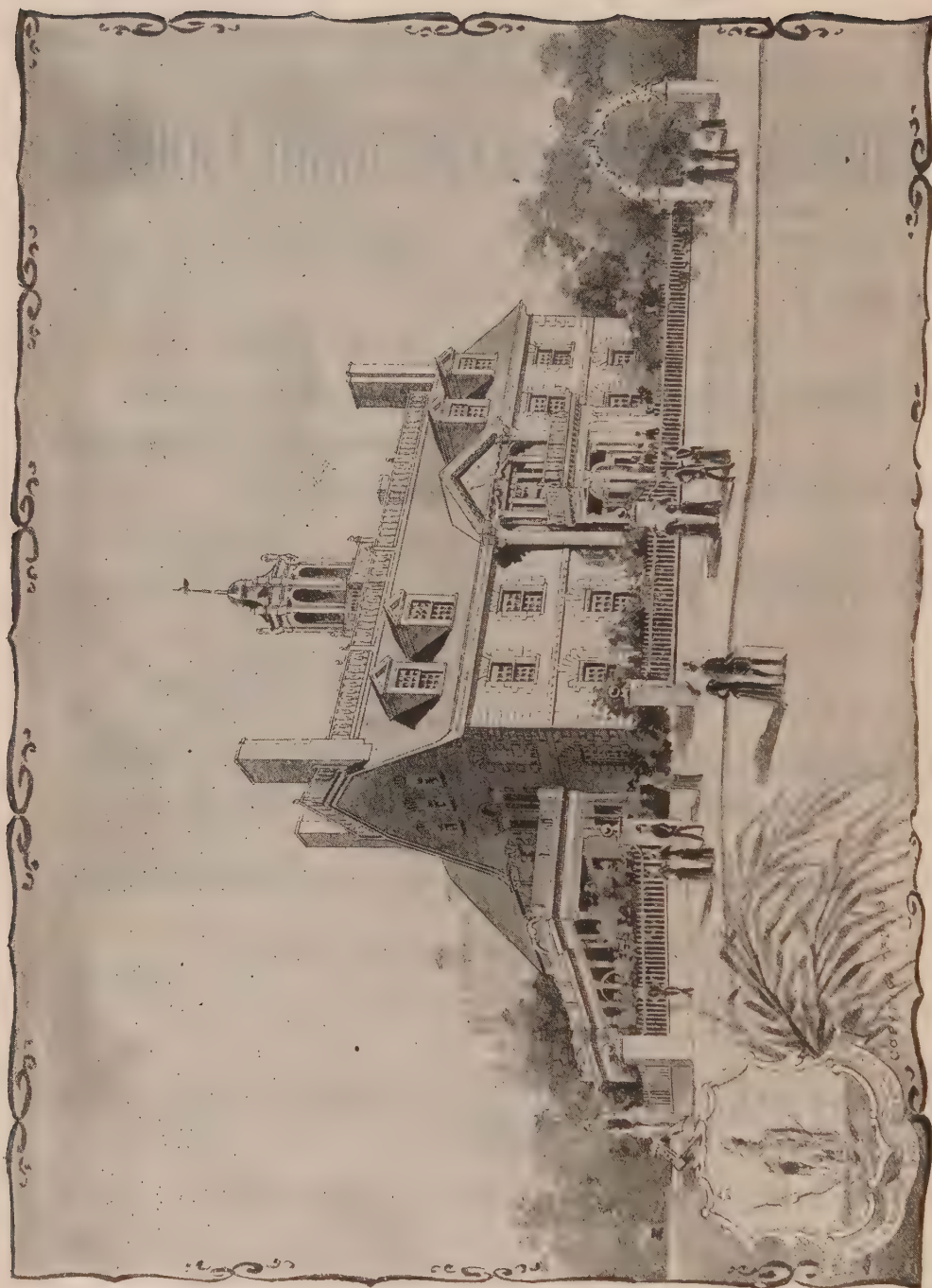
PACKERS AND JOBBERS OF PROVISIONS.

Pork, Beef, Lard, Hams, Bacon, Dry Salted Meats. Special attention paid to
Curing and Packing Meats, Lard, Hams, etc., for export.

EXHIBIT, SECTION D, MAIN FLOOR AGRICULTURAL BUILDING, GROUP 6, CLASS 36.

G. F. SWIFT, Pres.
E. C. SWIFT, Treas. and Gen. Manager.
S. HENRY SKILTON, Ass't Manager.

BOSTON, MASS., U. S. A.



MASSACHUSETTS STATE BUILDING.

ESTABLISHED IN 1849.



**FINEST TONE,
BEST WORK AND
MATERIAL.**

PIANOS

**PRICES MODERATE AND
TERMS REASONABLE.**

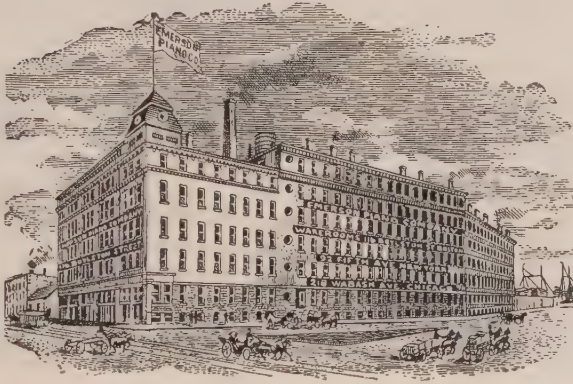
**60,000 MADE
AND IN USE.**

**EVERY INSTRUMENT
FULLY WARRANTED.**

ILLUSTRATED CATALOGUE FREE.

❖❖ NEW EMERSON FACTORY ❖❖

ERECTED
IN
1891
THE MOST
THOROUGHLY
EQUIPPED
FACTORY
IN THE
WORLD.



CONTAINS
NEARLY
3 1-2 ACRES
OF FLOORAGE
AND A
CAPACITY
OF OVER
6,000 PIANOS
A YEAR.

560 HARRISON AVE., BOSTON, MASS.

EMERSON PIANO CO.

WAREROOMS,

116 BOYLSTON STREET, BOSTON.

92 5th AVE., NEW YORK.

218 WABASH AVE., CHICAGO.

AMERICAN STRAW BOARD COMPANY

MANUFACTURERS OF ALL GRADES AND SIZES OF

Plain and Paper Lined,
Air-Dried or Doubled and Waterproof **STRAW BOARDS**

PULP-LINED BOARDS Single and Double Manila, Tack,
White, Cream and Colors.

Auburn Cloth, Aqueduct Tar,
Pontiac Cloth, Sherman Tar,
Star Cloth, Sherman Trunk, etc. **BINDERS' BOARDS**

Building Boards

PLAIN AND TARRED.

Egg Case Fillers

ALL GRADES.

—DEALERS IN—

ALL KINDS OF WOOD PULP AND FIBRE BOARDS

**BOX-MAKERS'
SPECIALTIES**

NOTE.—Our facilities are unexcelled for furnishing
Paper Box-Makers with above goods on shortest notice
and at reasonable prices and terms. This Company is
represented by the leading paper dealers of the country.

AGENCIES:

46 Federal Street, Boston, Mass.

102 to 106 Wooster Street, New York, N. Y.

121 to 127 North 4th Street, Philadelphia, Pa.

101 to 103 Walnut Street, Cincinnati, Ohio.

152 to 153 Michigan Avenue, Chicago, Ill.

GENERAL OFFICES, PULLMAN BUILDING, CHICAGO, ILL.

THE CELEBRATED...

SOHMER

PIANOS ARE THE BEST

And are Preferred by the Conscientious Musical Instructors and Musicians.



Received First Prize Centennial Exposition, Philadelphia, 1876.

Received First Prize at Montreal, Canada, 1881 and 1882.

SOHMER & CO.

... MANUFACTURERS OF ...

Grand, Square and Upright Pianofortes

WAREROOMS:

149, 151, 153 and 155 East Fourteenth St.,
NEW YORK.

FACTORY:

ASTORIA, L. I.,
OPPOSITE EIGHTY-SIXTH ST.

CHICAGO, ILL., THE THOMPSON MUSIC CO., 367 WABASH AVE.

ST. LOUIS, MO., THE KOERBER PIANO CO., 1180 OLIVE ST.

SAN FRANCISCO, CAL., BYRON MAUZY, 308 POST ST.

MILWAUKEE, WIS., J. B. BRADFORD, 422 BROADWAY.

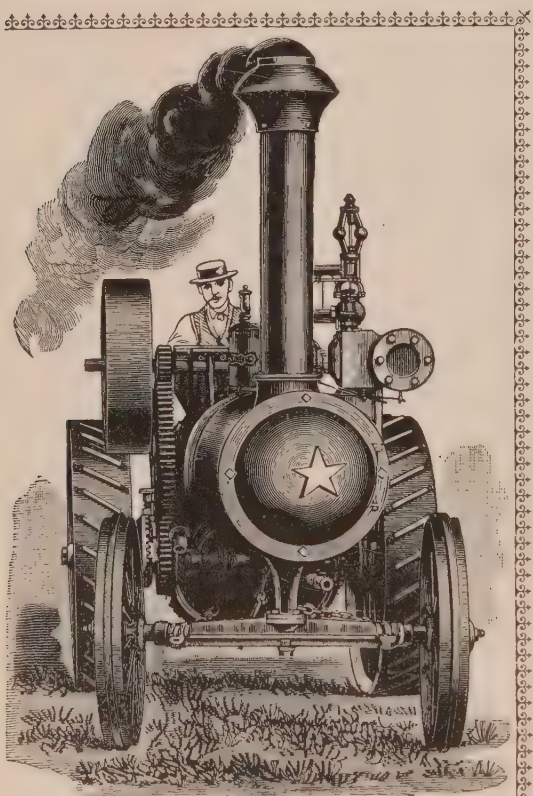
MOST EXTENSIVE THRESHER MANUFACTORY IN THE WORLD.
ESTABLISHED IN 1831.

C. AULTMAN & Co.

CANTON, OHIO. ✓



HIGHEST CLASS . . . Threshing and Cleaning Machines
. . . GRAIN AND SEED



AND ALL LATEST APPURTENANCES
COMPRISING THE

NEW STAR THRESHER,
STAR (Automatic) STACKER,

Grain Loaders, Weighers,
Baggers, etc.; also

STAR ENGINES,

6 to 16 Horse Power.

MONITOR ENGINES,

6 to 16 Horse Power.

PHOENIX ENGINES,

(STRAW BURNERS),
12 to 16 Horse Power.

HORSE POWERS, TANKS,

And all that can be required to
make up the most efficient equip-
ment for grain saving.



VISITORS TO CHICAGO

Are invited to see Complete Outfits and
obtain Catalogues and all needed infor-
mation at our branch office

18 & 20 WEST RANDOLPH STREET,

 **CHICAGO, ILL.**

WILLIMANTIC Manufacturing Cotton Threads

Made by WILLIMANTIC LINEN CO.

WILLIMANTIC SIX CORD. BEST (W.L.Co.) THREE CORD.
REID'S SIX CORD. IVERTON, THREE CORD.
INTRINSIC, FOUR CORD. DRAGON, THREE CORD.

200, 500, 1,200, 2,400, 7,200, 9,600 and 12,000 yard
lengths, Hard and Soft Finish.

Threads made expressly for the REECE and other Button Hole Sewing Machines,
also for the MORLEY and MORLEY-BENNETT Button Sewing Machines.

SOLE SEWINGS for the McKAY and GOODYEAR-McKAY LOCK STITCH Machines.

FAIR STITCH, STAY CORD, BUTTON HOLE CORDS, etc.

WE MAKE ONLY STANDARD SIZES AND NUMBERED ACCORDINGLY.

PATENT UNWINDERS FURNISHED.

COTTON THREADS FOR ALL KINDS OF MANUFACTURING.

Clothing, Overalls,	Straw Goods,
Jumpers, Cloaks,	Gloves and Mittens,
Corsets,	Hats, Caps and Umbrellas,
Shirts and Collars,	Carriage and Harness Work,
Ladies' and Children's Underwear,	Comfortables, all varieties of
Hosiery and Knit Goods,	Quilting,
Boots and Shoes,	Mattresses, etc.

READY-WOUND BOBBINS FOR ALL STANDARD SEWING MACHINES.

SPECIAL ATTENTION CALLED TO OUR PATENT SOLID COP BOBBINS.

NOTE.—Our FAST BLACK is GUARANTEED.

THE WILLIMANTIC SIX CORD, 200 YARDS THREAD, ALL NUMBERS,
IN WHITE, BLACK AND COLORS, IS STANDARD.

WILLIMANTIC LINEN CO. AGENCIES:

NEW YORK, 100 and 102 Worth Street.

BOSTON, 85 and 87 Essex Street.

PHILADELPHIA, 913 Filbert Street.

CHICAGO, Lees Building, 147-153 Fifth Avenue.

SAN FRANCISCO, 535 Market Street.



MINNESOTA STATE BUILDING.

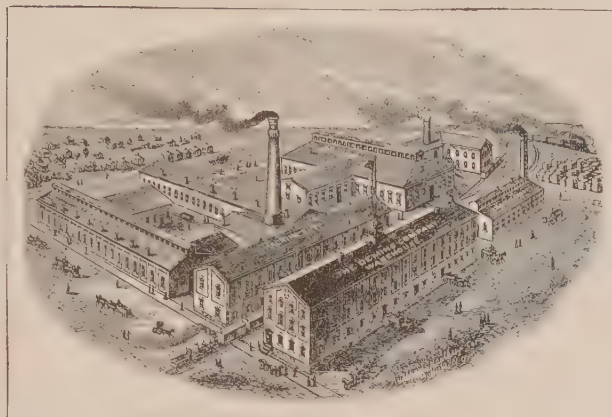
THE DEMING COMPANY

MANUFACTURERS OF

IRON AND BRASS PUMPS

FOR HAND, WINDMILL AND POWER.

A LARGE ASSORTMENT OF PUMPS
ADAPTED FOR EXPORTATION.
CATALOGUES IN ENGLISH AND
SPANISH.



CORRESPONDENCE IN ENGLISH,
SPANISH AND FRENCH.
ORDERS RECEIVED THROUGH COM-
MISSION MERCHANTS.

FACTORY:
SALEM, OHIO, U. S. A.

AGENCIES AT

NEW YORK OFFICE:
72 JOHN STREET.

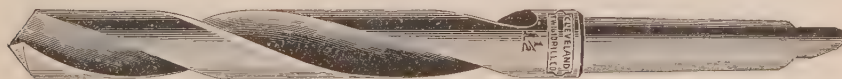
London, Eng., Chicago, Philadelphia, Kansas City and San Francisco, U. S. A.

WORLD'S FAIR EXHIBITS IN MACHINERY AND HORTICULTURAL HALLS.

ESTABLISHED 1874.

CLEVELAND TWIST DRILL CO.

MANUFACTURERS OF



All kinds of Twist Drills for Metal and Wood Boring,
Reamers and TOOLS of every description.

OWNED AND MANAGED BY PRACTICAL MECHANICS OF 25 YEARS' EXPERIENCE

We know what you want and how to make it.



AGENTS:

SELIG. SONNENTHAL & CO.,
85 Queen Victoria St.,
LONDON, ENG.

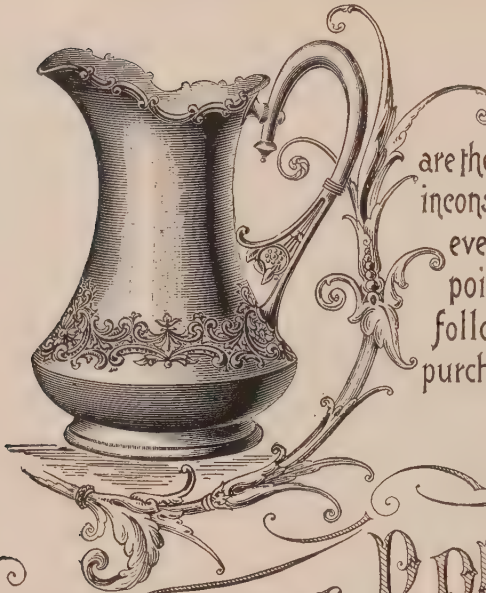
EMIL SONNENTHAL, Jr.,
Neue Promenade No. 5,
BERLIN.

BAGSHAW FRERES,
43 Rue Lafayette,
PARIS.

103 READE STREET, NEW YORK.

OFFICE AND FACTORY, CORNER LAKE AND KIRTLAND STS.,
CLEVELAND, OHIO, U. S. A.

Gold & Silver Plate



The only guarantees of quality in electro-silver plate are the trade-marks. These are stamped inconspicuously on each article, every dealer can and should point them out. Ask to see the following trade-mark before purchasing.



MERIDEN BRITANNIA CO.
MERIDEN, CONN.
NEW YORK.
CHICAGO. HAMILTON, ONT.
SAN FRANCISCO. LONDON.

Trade Mark
FOR

SPOONS, FORKS, KNIVES &c.

1847 **ROGERS BROS.** 

Acknowledged to be the best goods manufactured.

Areputation unimpeached for nearly fifty years.

COLUMBIAN EXHIBIT

ROGERS BROS. 

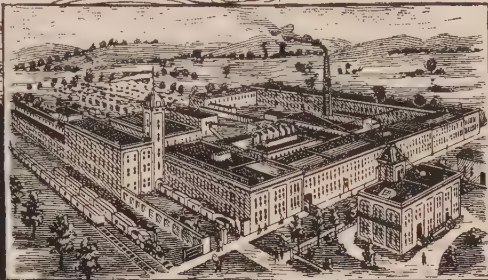
SECTION N, BLOCK I.

Manufactures and Liberal Arts Building.

Dodge Manufacturing Co.

Engineers Founders & Machinists.

MANUFACTURERS OF
POWER
TRANSMISSION
MACHINERY.



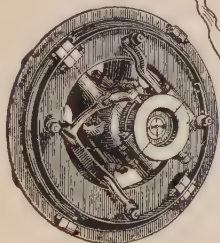
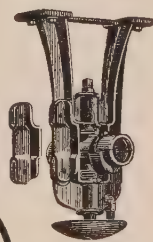
GROUND PLANT 60 ACRES,
FLOORAGE SPACE 25 ACRES,
DAILY CAPACITY 800 PULLEYS
40 TONS CASTINGS.



DODGE WOOD -
SPLIT PULLEYS
with
PATENT BUSHING SYSTEM.

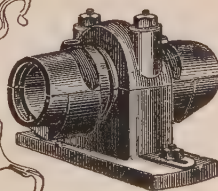
PATENT AMERICAN SYSTEM ROPE TRANSMISSION

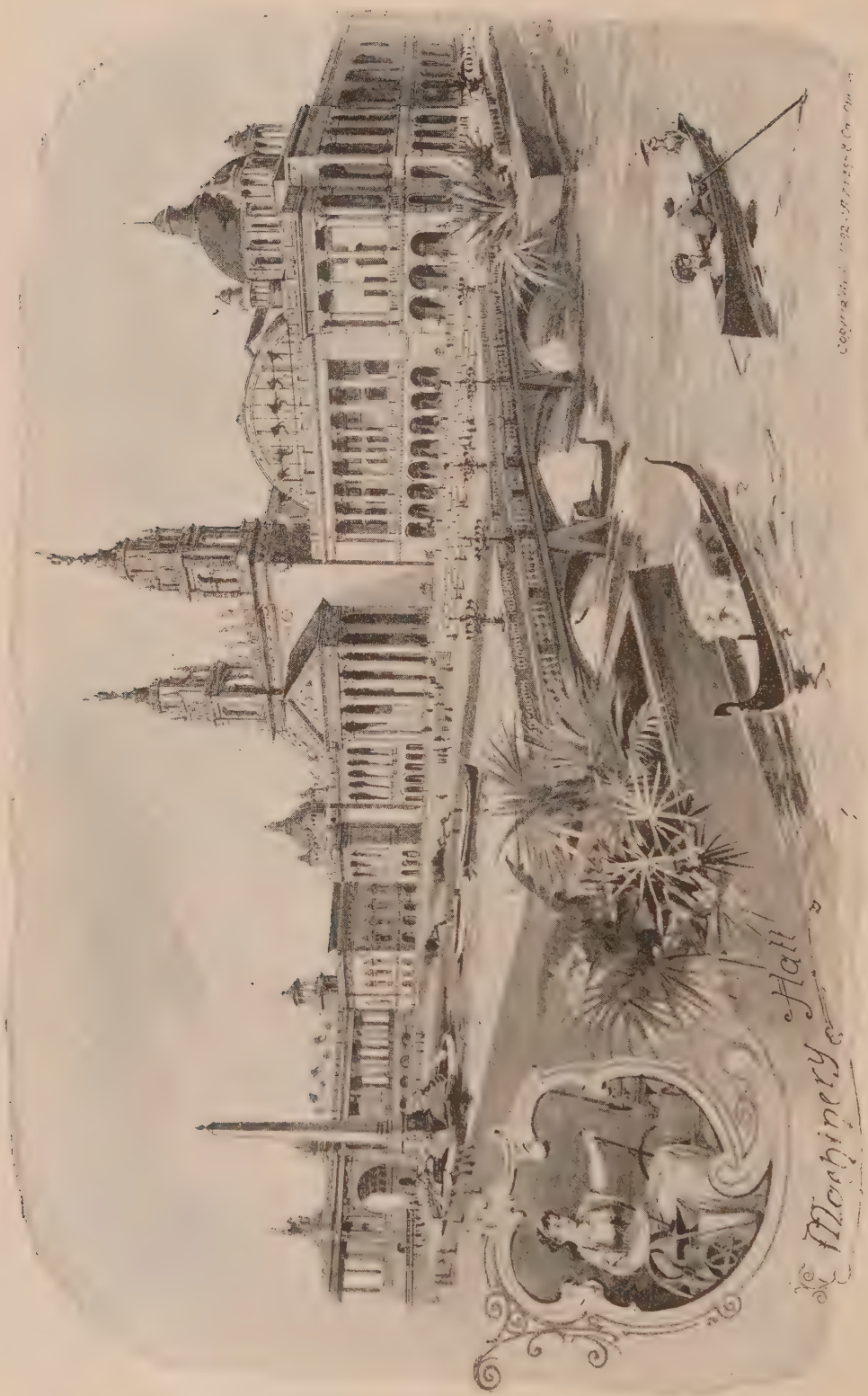
CHAIN OILING JOURNAL BEARINGS.
OVER 14,000 FT. of LINE SHAFTING
and EQUIPMENT, FURNISHED the
**WORLD'S COLUMBIAN
EXPOSITION.**



WORKS & MAIN OFFICE,
MISHAWAKA,
INDIANA U.S.A.

CHICAGO OFFICE,
166-174 S. CLINTON ST.





Engraved by J. H. Stanger & Co. for the Proprietors

1851

THE

1893

PHOENIX MUTUAL LIFE INSURANCE COMPANY

OF

HARTFORD, CONNECTICUT

Is one of the Strongest and Best
Life Companies in the Country.

Our new forms of **Life, Endowment and Life, Endowment and Annuity Policies** have all the liberal features endorsed thereon; extended insurance, cash values, loan privileges and paid-up values.

●————INCONTESTABLE AFTER TWO YEARS————●

Our new 3-20 policy is a low price insurance and investment contract. Our new **10-20 Installment Policy** is the lowest price Life Insurance contract issued by any old line company in the world.

In 1892 the business of the company shows an increase in each of the following items:

Assets, Surplus, New Premiums, Insurance Written, Insurance in Force.

JONATHAN B. BUNCE, PRESIDENT.
CHAS. H. LAWRENCE, SECRETARY.

JOHN M. HOLCOMBE, VICE-PRESIDENT.
A. A. WELCH, ACTUARY.

JULES GIRARDIN,

GENERAL AGENT,

THE TEMPLE,

CHICAGO, ILL.

CALIFORNIA OF THE SOUTH

HAS A
SURPASSING NEWSPAPER IN

The Los Angeles Times

Advertising rates furnished
upon application.

Subscription rates with
premiums:

Daily, per year
(7 days a week) \$9.00

Weekly, per year; - \$1.30

Address

It has a bona fide, guaranteed circulation larger than any daily in the State or in the Southwest, outside of the Pacific Metropolis, and as an advertising medium is without a peer in its field. Its specialty is the development of the country, and it gives non-residents full information about the **Beauty Spot of America** in which it is published. Sample copies sent to any part of the world free, and a special three part issue, containing elaborate and reliable information about the country in detail, sent on receipt of ten cents.

THE TIMES-MIRROR COMPANY,

TIMES BUILDING,

LOS ANGELES, CAL., U. S. A.

HOE PERFECTING AND OTHER POWER-PRESSES.
MERGENTHALER LINOTYPE MACHINES.
STEAM AND ELECTRIC POWER.
FULL ASSOCIATED PRESS DISPATCHES.

Daily, 8 to 12 pages; Sunday, 20 to 24 pages; Weekly, 12 pages.

JOSEPH VILAS, President.

H. A. FRAMBACH, Vice-President and Treasurer.

J. STILWELL VILAS, Secretary.

BADGER PAPER COMPANY

PAPER MAKERS AND MANUFACTURERS OF WALL PAPER KAUKAUNA, WISCONSIN.

Manufacturing a complete line of Paper Hangings, modern in style and artistic in design in preparation and will present to the trade, August 1st, through their salesmen, their second season's line of Wall Papers.

The popularity attained on their merits, of their first year's Paper Hangings product, is without a parallel in the history of the trade.

Wholly independent of all "Trust" Combinations.

G. H. OLIVER, MANAGER

WALL PAPER DEPARTMENT.

Operating the Following Mills:

Badger Paper Company, Kaukauna, Wis.
Badger Paper Mills, Badger Sulphite Fibre Mills,
Badger Wall Paper Mills,
Badger Wood Pulp Mills.
Brokaw Pulp Company, Kaukauna, Wis.
Brokaw Wood Pulp Mills.
Quinnesec Falls Company, Quinnesec, Mich.
Quinnesec Wood Pulp Mills.
Paper and Pulp Capacity 50 Tons Daily.

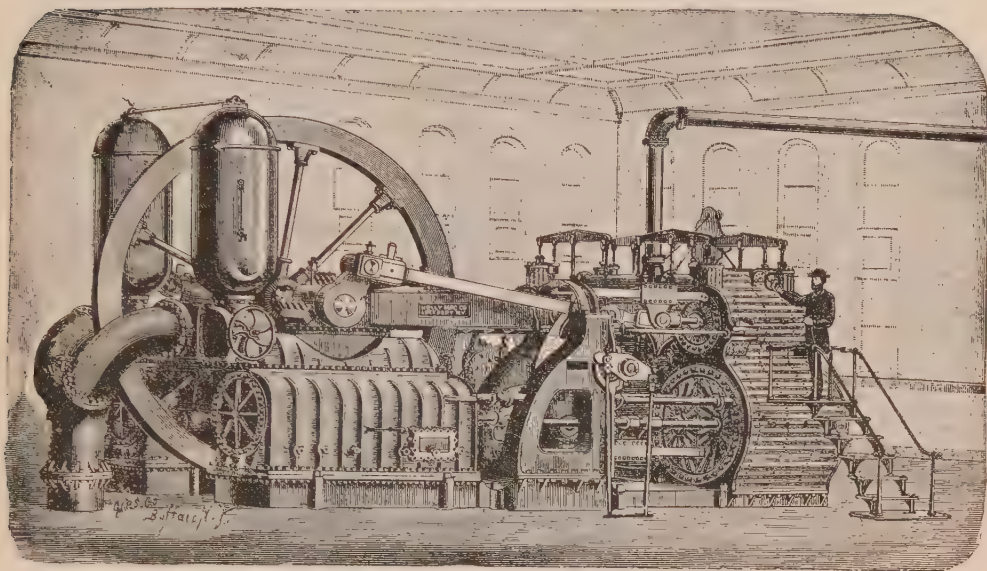
MAY, 1893.

T. T. FLAGLER, PRESIDENT.
W. H. WELLS, JR., VICE-PRES.
G. G. HILDRETH, SEC'Y.

H. H. FLAGLER, TREASURER.
F. W. HOLLY, ENG. & SUPT.
L. L. CHADWICK, AUDITOR.

❀ THE HOLLY MANUFACTURING COMPANY, ❀

LOCKPORT, N. Y.



MANUFACTURERS OF THE
CELEBRATED

Holly-Gaskill Horizontal High-Duty Pumping Engines.

❀ **Gaskill Vertical Compound High-Duty Pumping Engines.** ❀

Gaskill Triple Expansion High-Duty Pumping Engines.

There are four of these horizontal high-duty pumping engines of 12,000,000 capacity each, at the 68th Street Pumping Station, adjoining the World's Fair Grounds, two of which were purchased expressly to supply the World's Fair Grounds and buildings with wholesome lake water for all purposes. These engines are arranged to furnish instantaneous fire service at the Exposition, direct from the mains and hydrants, without the aid of steam fire engines.

There have been over two hundred of these justly celebrated high-duty pumping engines constructed and sold within the past ten years, ranging in capacity from one to twenty million gallons per day, and they are in use in the principal cities of the United States. Eight (8) of 12,000,000 gallons capacity each are now in service in the city of Chicago.

These engines are capable of developing the highest duty ever obtained by any pumping engine.

Engineers, mechanics, and others interested, are invited to visit the city pumping station, adjoining the World's Fair Grounds (at the foot of 68th street), to see those pumping engines in operation and supplying water to the Exposition grounds and Chicago.

For further information, send for pamphlet to the home office at Lockport, N. Y., or call on the General Agent,

P. H. LINNEEN,

ROOM 301, HOME INSURANCE BUILDING,
CHICAGO.

It is a Fact

That the demand for the Official Directory of the World's Columbian Exposition has been unprecedented in the history of the subscription book business. Many thousands of orders were taken by agents in all parts of the country long before the work was issued from the press. The public recognized in it something that would prove very valuable to them in their endeavor to comprehend the magnitude and splendor of the greatest Exposition the world has ever known; and considering the very low price at which it was sold, agents found no difficulty in securing orders. Representations made by them as to what the book would be have been more than verified, and now that the complete book may be shown to prospective subscribers, giving them an exact idea of its worth, many will avail themselves of an opportunity to obtain a copy who may have hesitated heretofore. The official publishers desire agents in every section of the country, and will be pleased to quote terms and particulars on application.

W. B. CONKEY COMPANY,

Official Publishers to the World's Columbian Exposition,

CHICAGO, ILL.

341-351 Dearborn Street.

DEPARTMENT F—MACHINERY.

AMONG the triumphs recorded at the Exposition is that of labor-saving machinery. The closing decade of the century will be remembered in history as the age of machinery, and the exhibit of this department is of necessity most important and interesting. It is perhaps the most conspicuous and observed of all the departments of the great Exposition, for a fitting close of the ceremonies on the opening day was the starting of the machinery in operation by the President of the United States. Henceforward to the close the machinery will be to the Fair what the lungs are to the human body. Peerless in the ranks of nations which have given to mankind the fruits of invention in mechanical form stands the United States of America, while Europe has spared no pains to prove that her artificers have not lost their skill, and that in the great competition the Old World is still abreast of the new. The extent of the space under roof in the building devoted to the display of machinery, nearly eighteen acres, is a proof of the appreciation of the importance of this branch of the Exposition.

The Machinery Building, or, as it is officially termed, the Palace of Mechanic Art, is located at end of the park, the shore of Lake west line of the south of the Administration Building, and west and from the Agricultural Building. The main building is 850 feet long and with the Main and Power-house, 1,000. The building three arched presents the three railroad by side. These are about 50 feet spans about 125 naves are lighted above by large the center, three covering an open square, take the Outside of this naved room on the south runs a 50-story building. This opens directly into the main hall; both on the first floor, and on the second floor on the north and east fronts, forming a great gallery.

There are two main entrances to Machinery Hall: One on the north, facing Administration Building, and one on the east, facing Agricultural Hall. In each of the four corners of the building is a domed pavilion containing a grand staircase, and there are other staircases adjacent to the two grand staircases referred to. There are other entrances along the sides and ends of the main hall and annex, giving ample accommodation for the immense crowds.

The Annex Building contains three naves and runs 550 feet to the westward, carrying out the long naves formed by the trusses in the main building.

On the south of the main building for its whole length is a one-story structure, which contains the vast steam and electrical plant which supplies power and light to the whole of the Exposition buildings and grounds.



L. W. ROBINSON, CHIEF.

the extreme south midway between Michigan and the park. It is just ministration Building across a lagoon tural Building. of Machinery Hall and 500 feet broad, chinery Annex cost about \$1,200,- is spanned by trusses, and the in- appearance of train-houses side arched iron trusses on centers, and the feet each. The and aired from monitor roofs; in domed roofs, each space 125 feet place of monitors. immense three-north, east and foot-wide two-

The whole of Machinery Hall, throughout, rests upon planking and trestle-work foundations. Its frame is very largely of wood, but the main trusses spanning the building are of iron, and are of such width that they will be serviceable in the future in the construction of railroad train-houses. The main building and annex added together will give a perspective of nearly 1,400 feet in a straight line. In each of the naves an electric-traveling crane moves from one end to the other. These are used for installing and moving the machinery exhibits. Platforms have been built on these traveling cranes, and they are used to carry visitors.

The exterior of the building is covered with staff, which is used for the covering of all the other buildings at the Exposition. In the figure and ornamental work every attempt has been made to indicate the purpose of the building, the statues representing mechanical forces, or carrying portraits, or the names of inventors.

Running the entire length of the main building and the annexes are three avenues or aisles, the center one twenty-five feet wide and the sides each fifteen feet in width. At the western extremity of these aisles enter the tracks of the auxiliary railroads for the conveyance of heavy machines to the first cross-aisle, from which the traveling cranes carry them.

The comprehensive character of the display to be seen in this branch of the Exposition is apparent from the classification. Eleven groups, comprising eighty-six classes, are devoted in the general classification to the department of machinery. Among these eighty-six classes are found almost every known mechanical device.

Holbrook Fitz-John Porter is assistant chief of the Machinery department, and shares with the chief the responsibilities of his position and represents him in his absence. Mr. Porter has been connected with the Exposition almost from the start. He was first assistant mechanical engineer in the Construction department during the time when the principal problems of a mechanical nature were being solved, and was transferred to the Machinery department when that department assumed shape. Mr. Porter is the son of Gen. Fitz-John Porter, and was born in New York City in 1858. Mr. Porter is a member of the American Society of Mechanical Engineers and of local engineering societies, and is the author of many engineering articles written for these societies and technical journals.

Departmental regulations provide that:

Exhibitors must be manufacturers or producers of machinery, and not dealers only.

No machinery on exhibition can be allowed to run longer than is necessary for that purpose, except by special permission of the chief of the department.

Steam pressure supplied is 125 pounds per square inch above the atmosphere. Exhibitors requiring a lower pressure obtain it by using a reducing valve.

The line shafting makes 250 and 300 revolutions per minute, and is placed fourteen feet nine inches from the center of shaft to floor of building.

Driving pulleys on main line of shafting are supplied by exhibitors, and are in halves and limited to thirty-six inches in diameter, and are secured in a manner that will not weaken the shaft.

The main lines of steam, water and sewer pipe are provided, but all connecting pipes, valves, etc., are supplied by the exhibitor.

The water pressure is that due to a head of 200 feet, or a pressure of about 86 pounds per square inch.

The Chief of the Department has the care and supervision of the main shaft, but all gear supplied by exhibitors is under their care, who also select persons to attend to their machinery, and who alone are allowed to operate it.

Exhibitors furnishing machinery, such as engines, boilers, etc., for the use of the Exposition, may select their own men to operate them, subject to the approval of the Chief of Construction.

Fire engines entered for exhibition, offered and accepted for use, are properly cared for and furnished with fuel free of expense.

All platforms, counters, ornamental partitions, show cases and appurtenances of approved design, have been erected at the expense of the exhibitor, and have not exceeded the following dimensions, without special permission of the Chief of Department:

Show cases 15 feet above the floor.

Counters, 2 feet 10 inches above the floor on the side next to passage-way.

Platforms, 1 foot above the floor.

Partitions of various heights, not exceeding 15 feet, of approved design, may be erected in certain parts of the building.

All exhibits of machinery in motion must be inclosed by a railing of uniform height of 2 feet 6 inches, the railing to come within the space.

No fire is allowed in Machinery Hall except by special permission of Chief of Department. Not more than a day's supply of oils and other inflammable material is permitted in the building, but a suitable place is provided for the storage of the same.

Permits are issued by the Chief of Department to bring in raw material required for the successful operation of certain exhibits, and such articles as may be required by concessions and privileges before fifteen minutes of the opening of the Exposition in the morning. Also for the removal of such articles and products as come within the regulations.

The location of exhibits in Machinery Hall is indicated by the rows of columns and the number of the nearest column in a row. The rows are lettered A, B, C, D, etc., from the south side, and the columns numbered 1, 2, 3, etc., from the east end.

All exhibits of machinery in motion must be protected by ornamental railings of a uniform height of two feet six inches.

No fire will be allowed in the Electrical Building except by the written permission of the Chief of the Department; oils and inflammable material will be allowed only in quantities sufficient for one day's use; suitable storage will be provided for the same.

Exhibitors may employ watchmen to take care of their machinery and exhibits at night, but such watchmen will be subject to the approval of the Chief of the Department.

The distribution of cards, circulars, pamphlets or samples about the building or its vicinity, will not be permitted under any circumstances. Exhibitors can distribute such articles only from their own space, but will not be allowed to solicit their acceptance.

Exhibitors are required to attach to each exhibit a printed or type-written description in the English language, of the use and operation of the object exhibited for the information of the public.

FLINT & WALLING MFG. CO.

KENDALLVILLE, IND., U. S. A.

... Manufacturers and Exporters of ...

WINDMILLS, IRON PUMPS

Hydraulic Well Machinery, Water Tanks and Fixtures.

STAR MILL.

This Mill is manufactured in sizes from 10 to 26 ft. in diameter and is especially adapted for pumping purposes. The simplicity of its construction recommends it as possessing more points of merit than can be found in any other make. **Note this fact: The Star Mill** is universally conceded to be the acme of perfection as regards mechanical construction, durability and power, which demonstrates clearly its leadership in the van of the Windmill trade.

STEEL STAR WINDMILLS GALVANIZED and STEEL TOWERS GALVANIZED.

The Steel Star Windmill has been thoroughly demonstrated a success, being simple and symmetrical in its construction. We furnish these Mills either painted or galvanized, the latter being superior, as this process of finishing protects them from air and moisture, which practically makes them indestructible.

The Steel Towers we furnish galvanized, and are of a heavier quality than that used by any other company.

IRON FORCE AND LIFT PUMPS, PAINTED OR GALVANIZED.

We are the only manufacturers of Pumps in America to-day who can furnish a full line of these goods **galvanized**, and it is not necessary to eulogize this method of finishing as it is apparent.

CYLINDERS.

We also make a full line of Pump Cylinders varying in size from 2 to 6 inches in diameter, and from 10 to 20 inches long, of iron, brass lined iron, brass body and all brass. Having double packed plungers they are superior to any other line of cylinders on the market.

HOOSIER WELL MACHINERY and TUBULAR WELL TOOLS.

There is no Well Machine and Tubular Well Tools combined that contain so many points of excellence as the "Hoosier," and are designed for making wells averaging in depth from 1 to 600 ft.



We also carry a full line of Pipe, Casing, Brass Goods, Fittings, Hose, and a general stock of goods used in raising and conducting water.

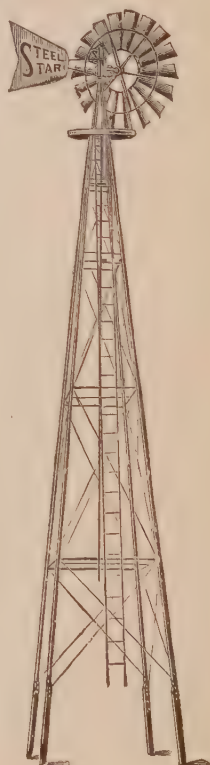
We solicit your correspondence, and on application will be pleased to mail you descriptive catalogues, etc.

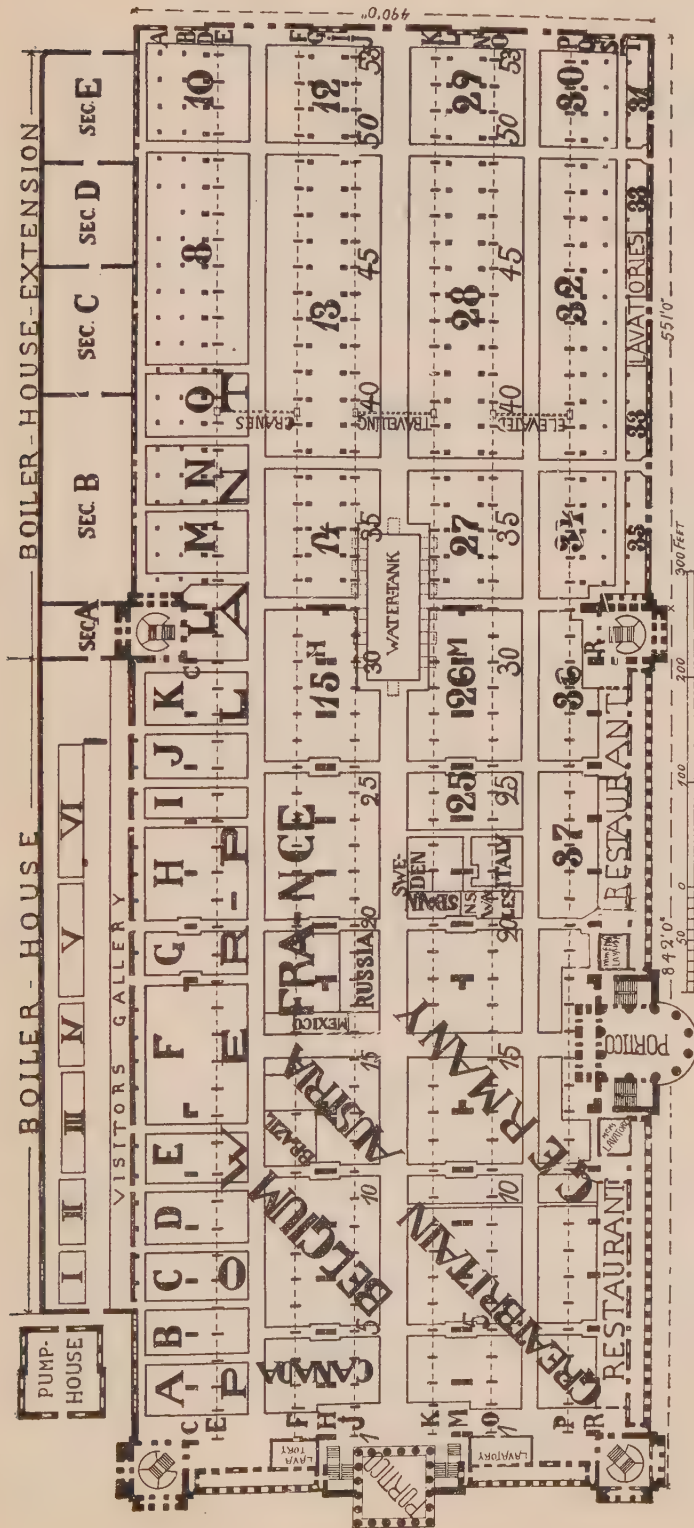
Address

Flint & Walling Mfg. Co.,

KENDALLVILLE, IND.,

ST. LOUIS, MO., or, COLUMBUS, OHIO.





COPYRIGHTED 1893,
BY THE

WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO.

KEY TO INSTALLATION.

The exhibits in the Department of Machinery are installed in Machinery Hall proper, in the Power Station Pump House, Machine Shop, Saw Mill Building, Boiler House Extension, Oil Pump House, and in an out-of-door space near the main building. In the location of exhibits, the following abbreviations are used: "pp."—Power Plant; "PS."—Power Station; "PH."—Pump House; "MS."—Machine Shop; "ODS."—Out Door Space; "LS."—Line Shaft; "SM."—Saw Mill; "BH."—Boiler House; "OPH."—Oil Pump House; "FEH."—Fire Engine Houses; "PH." of E. Ry.—Power House of Elevated Railway; "MP."—Midway Plaisance; "B. S. Ry."—Barre Sliding Railway. The power plant, adjoining the main building, is divided into sections lettered from A to O. The boiler house, on the south, has six numbered divisions, and the divisions of the boiler house extension are numbered from A to E. The east end of the main building is occupied by foreign countries, their various locations being indicated on the floor plan. The main building is divided into numbered sections, as indicated in the plan. The columns are lettered from south to north, from A to T, and from east to west they are numbered from 1 to 53. Hence, each column bears both a letter and a number. An exhibit located at "28-N-46" is in Section 28, near the post or column lettered "N" on the north and south line, and 46 on the east and west line.

GROUND FLOOR PLAN, MACHINERY HALL, WORLD'S COLUMBIAN EXPOSITION.



COPYRIGHTED 1893,
BY THE
WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO.

CLASSIFICATION.

MACHINERY DEPARTMENT (F).

GROUP 69.

MOTORS AND APPARATUS FOR THE GENERATION AND TRANSMISSION OF POWER—HYDRAULIC AND PNEUMATIC APPARATUS.

- Class 413. Boilers and all steam or gas generating apparatus for motive purposes.
- Class 414. Water wheels, water engines, hydraulic rams.
- Class 415. Steam, air and gas engines.
- Class 416. Apparatus for the transmission of power—shafting, hangers, belting, pulleys, couplings, clutches, cables, gearing. Transmission of power by compressed air, etc.
- Class 417. Pumps and apparatus for lifting and moving liquids, water filters. (See also Department E.)
- Class 418. Pumps and apparatus for moving and compressing air or gas. (See also Department E.)
- Class 419. Pumps and blowing engines, blowers and ventilating apparatus. (See also Department E.)
- Class 420. Hydraulic presses, freight elevators and lifts. Traveling cranes and derricks. (See also Department E.)
- Class 421. Beer engines; soda water machines, bottling apparatus, corking machines. (See also Department A.)
- Class 422. Iron and other metallic pipes, tubes and fittings, stop valves, cocks, etc.
- Class 423. Diving apparatus and machinery.
- Class 424. Ice machines. Refrigerating apparatus.

GROUP 70.

FIRE ENGINES—APPARATUS AND APPLIANCES FOR EXTINGUISHING FIRE.

- Class 425. Engines.
- Class 426. Hose-carts and hose.
- Class 427. Ladders and escapes.
- Class 428. Standpipes, etc.
- Class 429. Chemical fire-extinguishing apparatus.

GROUP 71.

MACHINE TOOLS AND MACHINES FOR WORKING METALS.

- Class 430. Small tools for machinists' use, drills, taps and dies, gauges, etc.
- Class 431. Squares, rules and measuring tools.
- Class 432. Steam hammers, trip-hammers, drop forging and swaging machines, hydraulic forging, etc.
- Class 433. Planing, drilling, slotting, turning, shaping, milling, punching and cutting machines. Wheel-cutting and dividing machines.

GROUP 72.

MACHINERY FOR THE MANUFACTURE OF TEXTILE FABRICS AND CLOTHING.

- Class 434. Machines for the manufacture of silk goods.
- Class 435. Machines for the manufacture of cotton goods.
- Class 436. Machines for the manufacture of woollen goods.
- Class 437. Worsted working machinery and appliances.
- Class 438. Machines for the manufacture of linen goods.
- Class 439. Machines for the manufacture of rope and for twine-making and for miscellaneous fibrous materials.
- Class 440. Machines for paper-making and felting.
- Class 441. Machines for the manufacture of India-rubber goods.
- Class 442. Machines for the manufacture of mixed fabrics.
- Class 443. Machines used in the manufacture of tapestry, including carpets, lace, floor cloth, fancy embroidery, etc.
- Class 444. Sewing machines for heavy materials.
- Class 445. Machines for preparing and working leather.
- Class 446. Machines for making boots and shoes.

GROUP 73.

MACHINES FOR WORKING WOOD.

(See also Departments A and E.)

- Class 447. Direct-acting steam sawing machines, with gang saws, band saws, circular saws.

- Class 448. Sawmills and sawmill tools.
Wood-working machinery for sawmills
Wood-working tools and minor appliances for sawmills.
- Class 449. Planing, sawing, veneering, grooving, mortising, tonguing, cutting, molding, stamping, carving and cask-making machines, etc.; cork-cutting machines. Lathes for wood-work and machinery for the manufacture of matches, toothpicks, etc.

GROUP 74.

MACHINES AND APPARATUS FOR TYPE SETTING, PRINTING, STAMPING, EMBOSsing, AND FOR MAKING BOOKS AND PAPER WORKING.

- Class 450. Steam-power presses.
Class 451. Hand-printing presses.
Class 452. Job presses.
Class 453. Hydraulic presses.
Class 454. Ticket printing and numbering machines.
Class 455. Type casting and setting machines. Linotypes.
Class 456. Hand-casting molds.
Class 457. Machines and printing blocks.
Class 458. Typographic electrotyping.
Class 459. Stereotyping.
Class 460. Bookbinding machinery.
Class 461. Envelope machines.
Class 462. Paper cutters, card cutters.
Class 463. Printers' cabinets and printers' furniture generally
Class 464. Composing sticks, cases.
Class 465. Brass and type metal labor-saving appliances.
Class 466. Specimens of plain and ornamental types, cuts, music, borders and electrotype plates.
Class 467. Type-founders' specimen books of type and typographical ornaments.
Class 468. Miscellaneous machinery used by printers and newspapers not otherwise specified.
Folding machines, addressing, stamping, embossing, etc.

GROUP 75.

LITHOGRAPHY, ZINCOGRAPHY AND COLOR PRINTING.

- Class 469. Lithography—Tools, materials and appliances. The various methods of lithography, crayon, pen and ink; engraving, brush work, color printing, etc. Transferring, printing. Zincography.
- Class 470. Color printing—Historical illustrations from the 16th Century to the present time. (Relief engraving. The old chiaro-oscuro. Modern wood-engraving. The Baxter process. Intaglio engraving, printed at one impression, *i. e.*, from the plate rubbed in different colors, printed from several plates. Stenochromy. Chromolithography. Wax process, etc. The modern photo-mechanical processes applied to color printing.)

GROUP 76.

PHOTO-MECHANICAL AND OTHER MECHANICAL PROCESSES OF ILLUSTRATING, ETC.

- Class 471. Relief processes—Photo-mechanical processes producing relief blocks for printing in the type-press (etching, swell-gelatine and washout processes). Line processes (photo-typographic etchings, typo-gravures, etc.).
- Class 472. Half-toned processes—Gelatine grain processes. (Paul Pretsch's and later.) Screen processes. (Meisenbach, etc.) The Ives process.
- Class 473. Photo-lithography, etc.—Photo-mechanical processes involving the production of printable designs on stone or zinc; *i. e.*, photo-lithography and photo-zincography. Half-toned processes (the Bitumen process, Poitevin's process, Asser's process, etc.). Recent grain processes. Screen processes. Line processes. (Osborne's process.)
- Class 474. Collographic processes—Photo-mechanical processes, involving the production of gelatine or other glutinous films, to be used as printing surfaces in the lithographic press; *i. e.*, collographic or photo-gelatine processes (albertype, heliotype, artotype, etc.).
- Class 475. Photo-mechanical processes—Producing intaglio plates for printing in the copper-plate press; *i. e.*, photo-gravure. Etching processes, deposit processes, heliotypes, heliogravures, etc. The Woodbury type-molds and impressions.
- Class 476. Mechanical processes—Partly chemical, partly mechanical, devised as substitutes for the other hand processes, but not involving photography. Chalcotype, Comte process, Gillot process, etching in relief, typographic etching, properly so-called (chemotype, the graphotype, kaolotype), the wax process and allied processes (glyphography, kerography, stylography, typographic etching, improperly so-

- called, etc.). Machine relief engraving, machine intaglio engraving (medal ruling), galvanography, stenochromy, mineralography, nature printing, the anastatic process, etc. Appendix. Etching on glass (improperly so-called, which involves photography, but not the use of the press).
- Class 477. Drawings for process work.
- Class 478. Aids to drawing for process work (used by lithographers and draughtsmen). Grained and embossed papers. Pasting tints. The air brush. Day's shading mediums, etc. Methods of reducing and enlarging. Photo-mechanical processes.
- Class 479. Applications of the photo-mechanical processes in the industrial arts—Prints on metal work, cloth, etc.

GROUP 77.

MISCELLANEOUS HAND TOOLS, MACHINES AND APPARATUS USED IN VARIOUS ARTS.

- Class 480. Machines for making clocks, watches and watch cases.
- Class 481. Machines for making jewelry.
- Class 482. Machines for making buttons, pins, needles, etc.
- Class 483. Wire-working machinery.
- Class 484. Machines for ironing, drying, scouring and laundry work generally.
- Class 485. Machines for making capsules and other pharmaceutical products.
- Class 486. Machines used in various manufacturing industries not specifically mentioned.
- Class 487. Emery and corundum wheels.
- Class 488. Street rollers, sweepers and sprinklers.
- Class 489. Steam gauges, oil cocks and all kinds of appliances used in connection with machinery.
- Class 490. For testing the strength of materials. Dynamometers.

GROUP 78.

MACHINES FOR WORKING STONE, CLAY AND OTHER MINERALS,

(See also Department E.)

- Class 491. Stone-sawing and planing machines, dressing, shaping and polishing, sand blasts, Tilghman's machines, glass-grinding machines, etc.
- Class 492. Brick, pottery and tile machines. Machines for making artificial stone.
- Class 493. Rolling-mills and forges—roll trains, hammers, squeezers, engines, boilers and other driving power; heating furnaces (coal and gas), special machines for shaping metal, such as spike, nail, and horseshoe machines; tire mills, etc.

GROUP 79.

MACHINERY USED IN THE PREPARATION OF FOODS, ETC.

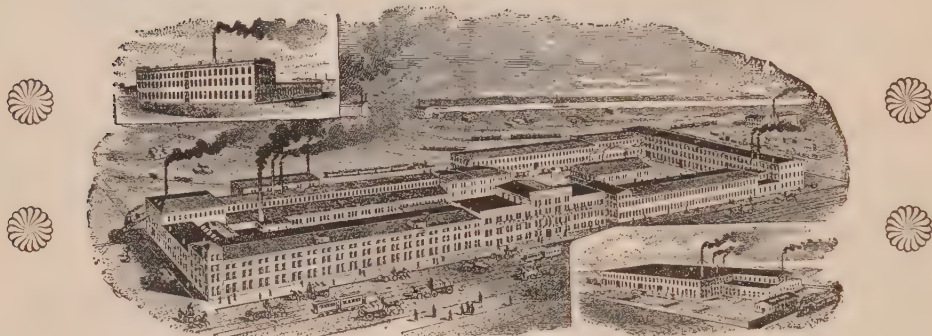
- Class 494. Mills for the preparation of cereals.
- Class 495. Sugar-refining machines. Confectioners' machinery.
- Class 496. Oil-making machinery; presses and stills.
- Class 497. Mills and machinery for spices, coffee, etc.
- Class 498. Evaporating machinery for condensing milk, etc.

ANNUAL SALES \$3,000,000.

ESTABLISHED 1860.

THE EDWARD P. ALLIS COMPANY

RELIANCE WORKS,
MILWAUKEE, WIS., U. S. A.



... MANUFACTURERS OF ...

THE REYNOLDS' GORLISS ENGINE

FROM 25 TO 4,000 HORSE POWER.

Compound Engines,
Hoisting Engines,
Reversing Engines,
Triple Expansion Engines,
Deep Mine Pumps,
Street Railway Engines,

Quadruple Expansion Engines,
Rolling Mill Engines,
Electric Light Engines,
Pumping Engines,
Sewerage Pumps,
Vertical Engines.

ROLLER PROCESS FLOURING MILL MACHINERY.

ROLLER MACHINES,
CORN ROLLS,
GRAIN CLEANERS,



FLOUR BOLTERS,
CENTRIFUGAL REELS,
AIR PURIFIERS,



DUST COLLECTORS,
SIEVE SCALPERS,
CORN SHELLERS.

Flour Mills of any size, complete with motive power, furnished
in running order under a guarantee of results.

THE RELIANCE BAND SAW MILL.

CIRCULAR MILLS,
CARRIAGES,
RELIANCE DOGS,



GANG EDGERS,
TRIMMERS,
SHINGLE MACHINES,



STEAM NIGGERS,
STEAM FEEDS,
LATH BOLTERS,

And a complete line of high grade Saw-Mill Machinery.

SEPARATE CATALOGUES ON ANY OF THE ABOVE MENTIONED MACHINES.

Department F.--Machinery.

UNITED STATES.

GROUP 69.

Motors and Apparatus for the Generation and Transmission of Power—Hydraulic and Pneumatic Apparatus.

1. Abendroth & Root M'fg Co., New York.
 - a Boilers, water pipe. BH.—1 413
 - b Pipe for water works, etc. 26-O-28 422
2. Aermotor Co., Chicago. Pumps. Dept. A 417
3. Alexander Bros., Philadelphia. Leather belting, belt truck. 26-J-28 416
4. Allis, E. P. Co., Milwaukee, Wis. Steam engines. F-E-13 & P H. of E. Ry. 415
 For exhibit see page 450.
5. Allington & Curtis M'fg Co., East Saginaw, Mich. Pipes and dust collectors. 12-E-53 419
6. Althouse Wheeler Co., Waupun, Wis. Pumps. W. ex. 417
7. American Fire Engine Co., Seneca Falls, N. Y.
 - a Boilers and engine heaters. 8-A-44 413
 - b Fire pump and piston pump. 417
8. American Hoist & Derrick Co., St. Paul, Minn. 15-F-29
 - a Engines, hoisting machines. 415
 - b Derricks with power. 420
9. American Leather Link Belt Co., Chicago. Leather link belts. 15-F-27 & PP. 416
10. American Well Works, Aurora, Ill. Engines, pumping machinery. 26-K-30 417
11. Ashton Valve Co., Boston. Valves and gauges. 26-M-27 422
12. Atlas Engine Works, Indianapolis, Ind. PP.—H-D-22 & N-A-37
 - a Boilers. 413
 - b Engines. 415
13. Babcock & Wilcox Co., New York. Boilers. BH.—6 413
14. Ball Engine Co., Erie, Pa. Engines. PP.—P-E-5 415
 PP.—E-A-11 415
15. Ball & Wood Co., New York. Engines. PP.—E-A-11 415
16. Bass Foundry & Machine Works, Fort Wayne, Ind. Engine. PP.—N-E-37 415
17. Bates Machine Co., Joliet, Ill. Engine. LS.—32-S-43 415
18. Bean-Chamberlin M'fg Co., Hudson, Mich. Spray pumps, windmill pumps, etc. 14-J-36 417
19. Bethlehem Iron Co., South Bethlehem, Pa. Shafting. Dept. G 416
20. Bilgram, Hugo, Philadelphia. Toothed bevel wheels. 15-H-27 416
21. Bishop & Babcock Co., Cleveland, Ohio. Beer drawing apparatus, compressors, etc. 25-K-24 421
22. Blake, Geo. F., Co., New York. Pumping machinery. 15-J-31 417
23. Bliss & Laughlin Factory, Harvey, Ill. Shafting. 8-B-47
24. Boston Belting Co., Boston. Rubber goods. PP 418
25. Brass and Iron Works Co., Fostoria, Ohio. Well drilling machine tools and pipe fittings. 26-K-28 422
26. Brightman Stoker Co., The, Cleveland, Ohio. Mechanical stoker furnace. BHE.—D 413
27. Brutham, George A., & Son, Philadelphia. Speed and rower generator and intermediate motor. 26-O-31 413
28. Buffalo Steam Pump Co., Buffalo, N. Y. Pumps; machinery. 26-K-29 417
29. Bucket Pump Co., Cincinnati. Pump and water purifier. 27-L-35 417
30. Buckeye Engine Co., Salem, Ohio. Engines. PP.—H-E-23 & J-A-27 415
31. Buckeye Iron & Brass Works, Dayton, Ohio. Brass goods and pumps. 28-K-44 422
32. Bushnell, G. H., Co., Thompsonville, Conn. Filter presses. 417
33. Caldwell, H. W., & Son Co., Chicago. Power transmitting machinery. 26-O-31 416
34. Campbell & Zell Co., Baltimore. Boiler. BH.—5 413
35. Cameron, A. S., Steam Pump Works, New York. Pumps and engine. 26-K-31 417
36. Carlson, Conrad, Brooklyn, N. Y. Hod elevating system. 26-O-29 420
37. Challenge Windmill & Feed Mill Co., Batavia, Ill. Pumps. Dept. A 417
38. Chambers, Cyrus, Jr., Overbrook, Pa. Steam engine. 34-P-36 415
39. Champion Blower & Forge Co., Lancaster, Pa. Blowers, forges, etc. 27-N-34 419
40. Chapman Valve M'fg Co., Chicago. Steam valves. BH.—3 422
41. Chapman Valve M'fg Co., Indian Orchard, Mass. Steam valves. PH. W.D. Ry. Co. 422
42. Chicago Automatic Scale Co., Chicago. Grain weighing machine. 26-O-28 420
43. Chicago Belting Co., Chicago. Belting. 30-Q-50; PP.—J; SM.—1 & 2 416

DEPARTMENT F.—MACHINERY.

44. Chicago Gas & Crude Oil Burner M'fg Co., Chicago. Oil burning device for boilers. Service 413
45. Chicago Rawhide Mfg. Co., Chicago. Belting, leather. 15-J-28 416
For exhibit see page 679.
46. Cleveland Faucet Co., Cleveland, Ohio.
a Air compressors. 27-O-33 418
b Physicians' atomizing apparatus and beer preserving device. 421
47. Clonbrock Steam Boiler Works, Brooklyn. Boilers. BHE.—B 413
48. Colles, E. G. T. & Co., Chicago. Feed water heaters, live steam purifiers and boiler cleaning filters. PP. & BHE.—D 413
49. Combination Flue Boiler Co., Milwaukee, Wis. Boilers. 15-F-31 413
50. Consolidated Safety Valve Co., New York. Valves. 25-K-24 422
51. Conover M'fg Co., New York. Jet condenser and air pumps. PP.—F-H-J 415
52. Crane Elevator Co., Chicago.
a Hydraulic machines, piston and cages. 29-L-51&West Wall 414
b Steam engines. 415
c Power pump. 417
d Elevators. 420
53. Crane Co., Chicago. Steam, water and gas supplies. 26-O-28 422
For exhibit see page 486.
54. Davidson, M. T., Brooklyn, N. Y. Pumps. BH.—4 417
55. Davis-Creswell M'fg Co., Denver, Col. Upright engine. 26-M-30 415
56. Deane Steam Pump Co., Holyoke, Mass. Pumps. BH.—1 417
57. De La Vergne Refrigerating Machine Co., New York. Steam pump. 27-K-34 417
58. Deming Co., Salem Ohio. Pumps. 27-K-33 417
59. Dickinson, H., & Son, Lowell, Ind. Water purifier pump. 27-L-34 417
60. Dodge Mfg. Co., Mishawaka, Ind. Power transmitting appliances. 15-F-27 416
61. Dodge M'fg Co., Chicago. Woodsplit pulleys in paper mill plant. 8-B-47 416
For exhibit see page 435.
62. Downie Pump Co., New Brighton, Pa. Pumps and valves. 27-L-35 417
63. Eddy Valve Co., Waterford, N. Y. Fire hydrants and valves. 26-K-28 422
64. Eick Bottle Cleansing Machine Co., Philadelphia. Bottle washing machines. 27-L-36 421
65. Erwin-Welch Hydraulic Machine Co., Chicago. Engines; motors. 14-I-34 414
66. Eureka Cast Steel Co., Chester, Pa. Steel casting. 26-M-30 422
67. Fales, Edward, Boston. Grate bars. BHE.—D 422
68. Falkenau, Arthur, Philadelphia.
a Pump 28-K-41 417
b Hoisting winch. 420
69. Falls Rivet & Mach. Co., Cuyahoga Falls, Ohio. Power transmitting machinery. 15-F-28 416
70. Farquhar, A. B., Co., York, Pa. Engines. 14-F-33 415
71. Fasoldt, E. C., Albany, N. Y. Air compressors. 15-E-27 418
72. Field Feed Water Purifier Co., Chicago. Heater and purifier. BH.—6 413
73. Flint & Walling M'fg Co., Kendallville, Ind. Iron pumps and pump goods. 27-J-35 417
For exhibit see page 444.
74. Floyd, James R., & Son, New York. Slide valve, valve stand and retort mouth-piece. 26-O-27 422
75. Franklin Portable Crane & Hoist Co. Franklin, Pa. Crane, hoist. 26-O-30 420
76. Fraser & Chalmers, Chicago. Mining engine. 25-K-23 415
Engine PP.—F-A-14 415
77. Frick Co., Waynesboro, Pa. Ice machine. 26-O-30 424
78. Funk Steam Boiler & Iron Work Co., La Crosse, Wis. Feed water heater. OPH. 413
79. Gandy Belting Co., Baltimore. Belting. 15-J-27 416
80. General Electric Co., New York.
a Transmission of power. 1-N-33, I-H-20, I-C-9 416
b Electric pumps. 417
c Electric air compressor. 418
d Electric blowers and fans. 419
e Lifting magnets, electric hoists and traveling cranes. 420
81. Globe Light & Heat Co., Chicago. Gas machine 27-L-36 413
82. Golden State & Miners' Iron Works, San Francisco. Compound steam engine. 28-L-43 415
83. Goulds' M'fg Co., Seneca Falls, N. Y. Pumps. 8-B-47 417
84. Graton & Knight, Worcester, Mass. Belting. Dept. J—A-4 416
85. Gray, Thos. F., Monroeville, Ohio. Elevator and grain scale. 26-O-29 420
86. Hanson, Thomas, New York. Hydraulic rams. 27-K-36 417
87. Hayden & Derby M'fg Co., New York. Injectors. 25-K-24 417
88. Hayes Pump & Planter Co., Galva, Ill. Force pumps, wind mills and power pumps. 27-L-34 417
89. Harrisburg Foundry & Machine Works Harrisburg, Pa. Engines. LS.—17-E-16 & 18-E-15 415
90. Heath, Laban & Co., Boston. Water shut off machine. 26-O-28 422
91. Heine Safety Boiler Co., St. Louis. Boilers. BH.—3 413
92. Hercules Iron Works, Chicago. Ice and refrigerating machines. Cold Storage and Dairy Bldg. 424
93. Hersey M'fg Co., So. Boston, Mass. Pumps. 31-T-53 417
94. Hoffman, J. G., Chicago. Hand fan blowers. 27-L-33 419
95. Ide, A. L., & Son, Springfield, Ill. Engines. PP.—D-A-9 415
96. Jarecki Mfg. Co., Erie, Pa. Brass and iron work, pipe fittings etc. 28-K-47 422
97. Jeffrey Mfg. Co., Columbus, Ohio. Conveyers, elevators, etc. 26-O-31 420
98. Jewell, O. H., Filter Co., Chicago. Water filter. 8-B-47 & Fisheries Bldg. 417
99. Johns, H. W., M'fg Co., Chicago. Pipe coverings. BH. 413
100. Johns, H. W., Mfg. Co., Chicago. Asbestos pipe covering. BH. 413

UNITED STATES.

101. Kane, Thos. & Co., Chicago. Engines. 15-F-30 415
102. Kearns, J. F. & Co., Chicago. Valves. 26-K-27 422
103. Knowles Steam Pump Works, New York. Pumping machinery. PP 417
104. Kroeschells & Bourgeois, Chicago. Feed water heater. BH. 413
105. Laidlaw & Dunn Co., Cincinnati. Pumps. BH.—5 417
106. Lake Erie Engineering Works, Buffalo, N. Y. PH.—Intr. R. R. 415
107. Lane & Bodley Co., Cincinnati. Engines. PP.—M-A-34 415
108. Lawrence Machine Co., Lawrence, Mass. Centrifugal pump. PP. 417
109. Leard, Wm. E., New Brighton, Iowa. Connecting rods and strap joints. 15-F-27 416
110. Lidgerwood M'fg Co., New York. Electric mining hoist. Dept. J; N-33 420
111. Limple M'fg Co., Esopus, N. Y.
a Boilers. 15-J-29 403
b Hydraulic ram. 414
c Pumps. 417
112. Lippincott, Chas. & Co., Philadelphia. Soda water machinery. 27-O-37 421
113. Liquid Carbonic Acid Mfg. Co., Chicago. Acid and machinery. 27-N-36 421
114. Maris & Beekley, Philadelphia. Cranes, hoists, etc. 26-O-30 420
115. Matthews, John, Apparatus Co., New York. Soda water machinery. 27-O-37 421
116. McEwen, J. H., Mfg. Co., Ridgeway, Pa. Engine. PP.—P-D-14 415
117. McGowan, John H., Co., Cincinnati. Pumps, compressors, etc. 27-K-36 417
118. McIntosh, Seymour & Co., Auburn, N. Y. Compound condensing engine. 415
119. Menasha Wood Split Pulley Co., Menasha, Wis. Wood pulleys. 26-M-28 416
120. Miller Steam Pump Co., Dixon, Ill. Pumps. BH.—5 417
121. Morgan Engineering Co., Alliance, O.
a Traveling crane. Dept. F 420
b Hydraulic fittings. M.P.—B.S. Ry 422
122. Morse Rotary Engine Co., Boston. Engine. 27-L-37 415
123. Myers, F. E. & Bro., Canton, Ohio. Hand pump. E-L-10 417
124. Myers, F. E., & Bro., Ashland, Ohio. Pumps. 27-K-34 417
125. National Electric Valve Co., Cleveland, Ohio. Electric valves. F. P. H. 422
126. National Meter Co., Brooklyn, N. Y. Gas engines, air compressor. 15-F-30 415
127. National Supply Co., Chicago. Fuel oil burners. PP.—Intramural R. R., S. C. W., O. P. S., etc. 413
128. National Water Tube Boiler Co., New Brunswick, N. J. Boiler and parts. W—O-D-S 413
129. New York Belting & Packing Co., New York. Belting, packing. 15-H-27 416
130. Nixon, Miles G., Chicago. Oil engine. 15-F-31 415
131. Norwalk Iron Works Co., South Norwalk, Conn. Air compressor. PP.—L-E-30 418
132. Nye, Geo. E., Chicago. Pumps. 26-K-30 417
133. Oberne, George & Co., Chicago. Belting. PP-8 416
134. Olsen, L. A., Oakland, Cal. Heater, purifier, steam generator. BH.—5 413
135. Oneida M'fg Chucks Co., Oneida, N. Y. Chucks and gears. 28-N-46 416
136. Osterlein, W., Cincinnati. Clutch pulleys and coupling. 15-J-28 416
137. Otto Gas Engine Works, Philadelphia. Gas engines. 15-H-31 415
For exhibit see page 470.
138. Page Belting Co., Concord, N. H. Belting. 15-F-27 416
139. Payne, B. W., & Sons, Elmira, N. Y. Steam engine. 10-B-50 415
140. Pelton Water Wheel Co., San Francisco. Water wheel connected to dynamo. Dept. J 414
141. Perkins, H. H., M'fg Co., Kewanee, Ill. Force pump. E-R-11; Dept. A 417
142. Phoenix Iron Works Co., Meadville, Pa. Engines. PP.—C-D-7 415
143. Popham, Henry, & Son, East New-ark, N. Y. Belting. 15-H-27 416
144. Preston, E. B., & Co., Chicago. Leather belting. 15-H-27 416
145. Priestman & Co., Philadelphia. Oil engine. 15-H-32 415
146. Providence Steam Engine Co., Providence, R. I. Compound engine. 28-L-44 415
147. Puffer, A. D., & Sons, Boston. Soda water machinery. 27-O-37 421
148. Racine Cement & Pipe Co., Racine, Wis. Sewer and culvert pipe. W—O-D-S 422
149. Reeves Pulley Co., Columbus, Ind. Pulleys. 15-H-27 416
150. Rifes Hydraulic Engine Mfg. Co., Roanoke, Va. Rams and model. 29-K-29 417
151. Reliance Gauge Co., Cleveland, Ohio. Alarm for steam boilers, floats for high pressure steam service and steam separators. BH.—3-5-7 413
152. Rider Engine Co., Walden, N. Y. Engines. 27-K-36 417
153. Roe Stephens Mfg. Co., Detroit, Mich. Valves, water gates; injectors. 26-M-29 417
154. Richardson, Chas. H., Gloucester, Mass. Ice crusher. 424
155. Ruble American Blower & Injector Co., Newark, N. J. Blowers, ventilators. 27-O-33 416
156. Russell & Co., Massillon, Ohio. Automatic engines. PP.—K 415
157. Sandwich Enterprise Co., Sandwich, Ill. Pumps, cylinders, tools. 27-K-34 & Dept. A. 417
158. Sanford, B. H. & J., Sheboygan Falls, Wis. Turbine waterwheels. 14-J-35 414
159. Schieren, Chas. A., Chicago. Belting, stuffing, cement. 15-F-27 416
For exhibit see page 692.
160. Schock, Gustav, New York. Beer machinery, malt mill, etc. 421
161. Schutte, L., & Co., Philadelphia. Condensers, etc. 26-M-27 419

DEPARTMENT F.—MACHINERY.

162. Secco, Henri, Boston, Mass. Lifting jack. 26-O-27 420
163. Sellers, William, & Co., Philadelphia. 15-J-38
- a* Electric traveling crane. South nave 420
- b* Power transmitting machinery. 416
164. Simplex Mfg. Co., New York. 15-J-29
- a* Automatic steam vacuum pumps. 412
- b* Combination pumps and high pressure test pumps. 417
165. Sioux City Engine Works, Sioux City, Iowa. Steam engine. PP 415
166. Smith, J. A. & Co., Chicago. Vegetable boiler compound. BH. E—D 413
167. Snow Steam Pump Works, Buffalo, N. Y. Pumps. OPH & BH—6 417
168. South Bend Pulley Co., South Bend, Ind. Pulleys. 15-J-27 416
169. Spiedel, J. G., Reading, Pa. Derrick and chain hoists. PP. and in service 420
170. Stearns Mfg. Co., Erie, Pa. PP.—D-D-9
- a* Boilers. 413
- b* Engines. 415
171. Steele, E. B., Marlboro, Mass. Derrick. 26-M-30 420
172. Sterling Co., Chicago. Water tube safety boilers. BH.—7 413
173. Stilwell-Bierce & Smith-Vaile Co., Dayton, Ohio.
- a* Water wheels, etc. 14-J-37 414
- b* Steam pumps. 418
174. St. Joseph Pump Co., St. Joseph, Mo. Elevator and purifying pump. E-A-2 417
175. Thoens, Gerdes & Henderson, New Orleans. Ice machine. W—O-D-S 424
176. Thomas, Joshua, Cleveland, Ohio.
- a* Steam boiler. BH. 413
- b* Pump. 417
177. Toepfer, W., & Sons, Milwaukee, Wis. Beer-making machine. 27-O-35 421
178. Tuerk Bros., Chicago. Gas burners. 27-K-37 413
179. Tufts, James W., Boston. Soda water machinery. 27-O-37 421
180. Turner Machine Co., New York.
- a* Motors. 14-C-34 415
- b* Pumps. 417
- c* Compressors. 418
181. Tyler Tube & Pipe Co., Washington, Pa. Water tubes and charcoal iron blooms. W—O-D-S 422
182. Underwood Mfg. Co., Tolland, Conn. Belting and pulleys. PP.—15-J-28 416
183. Union Mfg. Co., Battle Creek, Mich. Pumps. 15-J-30 417
184. United States Wind Engine Co., Batavia, Ohio. Hand and power pumps. 417
185. Valley Iron Works Mfg. Co., Appleton, Wis.
- a* Water wheels. 14-2-33 414
- b* Clutches and pulleys. 416
186. Vannette Water Purifier Co., Tiffin, Ohio. Water elevator. E-A-5 417
187. Vulcan Brass Co., Cleveland, Ohio. Beer pumps, etc. 27-N-37 421
188. Walworth Mfg. Co., Boston. Valves, cocks, etc. 26-O-27 422
189. Ward, Charles, Charleston, W. Va. Marine boilers. BH. Annex 413
- For exhibit see page 1094
190. Watertown Steam Engine Co., Watertown, N. Y. Engine. PP.—O-E-40 415
191. Webster, Warren & Co., Philadelphia. Vacuum steam heating system. (In Service and Administration buildings.) Vacuum feed water heaters. BH. 417
192. Webster Mfg. Co., Chicago.
- a* Gas engines. 15-H-30 415
- b* Conveyor, elevator, etc. 416
193. Welch-Erwin Machinery Co., Chicago. Pumps, motors, etc. 14-I-34 420
194. Wells, F. C., Chicago. Pumps and engines. 26-K-28 417
195. Westinghouse, Church, Kerr & Co., New York. Engines. PP.—F-A-15 & G-A-19 415
196. Wheeler Condenser & Engineering Co., New York. Condensers. PP.—M-A-34 415
197. White & Middleton Gas Engine Co., Baltimore. Gas engines, etc. 27-N-34 415
198. White, Otis C., Worcester, Mass. Extension movement in ball and socket joints. 416
199. Williams Engine and Clutch Works, Beloit, Wis. Friction clutch. 8-B-47 416
200. Wilson, Snyder, Mfg. Co., Pittsburg, Pa. Pump. BH—5 417
201. Wilson F. Cortez & Co., Chicago. Oil filters and tanks. PH & PP 417
202. Wittemann Bros., New York. Bottler's machinery and supplies. 27-O-35 421
203. Wolf, Fred W., Co., Chicago. Refrigerating machines. Waukesha Hygeia Bldg. 424
204. Wood, R. D., & Co., Philadelphia.
- a* Gas apparatus. 15-F-30 413
- b* Hydraulic tools. 420
205. Worthington, Henry R., New York. Pumps, condensers, water meters. 15-J-28 418
206. Yale & Towne M'fg Co., Stamford, Conn. Electric traveler and hoist and chain blocks. 15-F-28 & Central runway. 420
207. Yawman & Erbe, Rochester, N. Y. Bottle washing apparatus. 27-N-35 421
208. Yeakley M'fg Co., Cleveland, Ohio.
- a* Engine. 28-L-45 415
- b* Injector. 417
209. Zwietusch, Otto, Milwaukee, Wis. Soda water apparatus. 27-O-35 421

GROUP 70.

Fire Engines, Apparatus and Appliances for Extinguishing Fire.

210. American Fire Engine Co., Seneca Falls, N. Y. Fire engine house. A-44
- a* Steam fire engines. 415
- b* Hose cart and fire dept. supplies. 426
211. Boyle, H. L., & Calleton, J. H., Grand Rapids, Mich. Traction truck. 8-A-48 426
212. Coburn Trolley Track Mfg. Co., Holyoke, Mass. Store ladders, fire escapes. Dept. G 427
213. Doolittle, Irvin P., Los Angeles, Cal. Lightning hose couplings and bands. 8-A-49 426
214. Eastman, Samuel & Co., East Concord, N. H. Fire hose, nozzles, etc. 8-A-49 426

UNITED STATES.

215. Fire Extinguisher Mfg. Co., Chicago.
a Hook and ladder truck. FEH 427
b Fire extinguishers. 429
216. General Fire Extinguisher Co., Providence, R. I. Automatic sprinkler equipment. P-S 428
217. Harden Hand Fire Extinguisher Co., Chicago. Fire extinguishers. 8-A-41 429
218. Kansas City Fire Dept., Kansas City, Mo. Water tower.
 Fire engine house. 428
219. Lindgren-Mahan Chemical Fire Engine Co., Chicago. Chemical fire engine and fire extinguishers. 8-A-42 429
220. Mellert Foundry & Machine Co., Reading, Pa. Fire hydrant. 26-M-30 428
221. Miller Chemical Engine Co., Chicago. Chemical fire extinguishers. 8-A-43 429
222. Preston, E. B., & Co., Chicago. Fire hose, brass goods. 15-H-27 426
223. Waterbury Rubber Co., New York. Spring steal armoured hose. 8-A-47 426

GROUP 71.

Machine Tools and Machines for Working Metals.

224. Acme Machinery Co., Cleveland, Ohio. Machinists' tools. 13-I-47 433
225. American Improved Wrench Co., Boston. Metal working machines. 29-K-50 433
226. American Screw Co., Providence, R. I. Screw making machines. 29-K-50 433
227. American Standard Gauge & Tool Works, Wilmington, Del. Machinists' tools. 28-K-38 430
228. Armstrong Mfg. Co., Bridgeport, Conn.
a Steam fitters' tools. 29-K-52 430
b Treading, cutting machines. 433
229. Barnes, W. F. & John, Co., Rockford, Ill. Lathes, drills, etc. 8-K-48 433
230. Beaman & Smith, Providence, R. I. machinery and tools. 28-K-47 433
 For exhibit see page 485.
231. Beaudry Tool Co., Boston. Power hammers and forging presses. BHE. 432
232. Besly, Charles H., & Co., Chicago. Metal working machinery. 13-I-49 433
233. Bethlehem Iron Co., Bethlehem, Pa. Steam hammer and hydraulic forging. Dept. G 432
234. Billings & Spencer Co., Hartford, Conn. 29-K-51
a Machinists' small tools. 430
b Drop forgings. 432
235. Blake, George F., Mfg. Co., New York. Pumps, condensers. 15-J-31 433
236. Bliss, E. W., Co., Brooklyn, N. Y. Metal working machines. 28-L-42 433
237. Bonney Rapid Vise Co., Marion, Ind. Vises, lathes, etc. 29-K-50 430
238. Brainard Milling Machine Co., Hyde Park, Mass. Milling machines. 28-K-38 433
239. Brown & Sharp Mfg. Co., Providence, R. I.
a Machinists' small tools. 13-J-46 430
b Metal working machines. 433
240. Buckeye Iron & Brass Works, Dayton, Ohio. Metal working machines. 28-K-44 433
241. Canedy-Otto Mfg. Co., Chicago. Portable forges, blowers, vises, drills, screw plates, anvils and blacksmith tools. 13-Q-38 430
242. Capitol Mfg. Co., Chicago. Metal working machines. 28-L-41 433
243. Carpenter, J. M., Tap & Die Co., Pawtucket, R. I. Taps and dies. 13-J-46 430
244. Christy Knife Co., Fremont, O. Knife-handle, press and slotting machines. 13-J-38. 432
245. Cleveland Twist Drill Co., Cleveland, Ohio. Drills, taps, reamers, cutters, etc. 29-L-50 430
 For exhibit see page 433.
246. Darling, Brown & Sharpe, Providence, R. I. Tools for machinists. 13-I-46 430
247. Detrick & Harvey Machine Co., Baltimore. Open side planers. 13-J-41 433
248. Eaton, Geo. H., & Co., Boston, Mass. Presses and shears for working sheet metal. 13-Q-48 433
249. Falkenau, Arthur, Philadelphia. Metal working machines. 28-K-41 433
250. Farquhar Heating Co., Chicago. Riveting and grinding machines. 13-J-40 433
251. Ferracute Machine Co., Bridgeton, N. J. Metal working machines. 13-J-42 433
252. Fisher Clark, Trenton, N. J. Anvils, vises, etc. 29-K-52 432
253. Flather & Co., Nashua, N. H. Lathes, planers, etc. 28-K-38 433
254. Fox Machine Co., Grand Rapids, Mich. Iron working machinery. 13-J-43 433
255. General Electric Co., New York. Turning device. Dept. J 433
256. Gisholt Machine Co., Madison, Wis. Turret lathes, etc. 28-K-49 433
257. Hackney Hammer Co., Cleveland, Ohio. Forging hammers. 10-D-52 432
258. Hatch Hammer Co., So. Milwaukee, Wis. Drop hammers and power presses. 10-A-53 432
259. Hendy Machine Co., Torrington, Conn. Iron working machine tools. 28-K-39 433
260. Hilles & Jones Co., Wilmington, Del. Metal working machines. 12-J-53 433
261. Horton, E., & Son Co., Windsor Locks, Conn. Lathe and drill chucks. 29-K-52 430
262. Hurlbut-Rogers Machine Co., South Sudbury, Mass. Cutting-off lathes. 28-K-38 433
263. International Steel Post Co., Chicago. Rolling machine and punches. 10-E-51 433
264. Jarecki Mfg. Co., Erie, Pa. Threading machines. 28-K-47 433
265. Jones & Lamson Machine Co., Springfield, Vt. Flat turret lathe and spindle hole screw machine. 28-L-48 433
266. Jones & Lamson Machine Co., Springfield, Vt. Turret lathes. 28-L-48 433
267. Landis Bros., Waynesboro, Pa. Grinding machines. 28-K-38 433

DEPARTMENT F.—MACHINERY.

268. Lidbuck, John A., & Son, Portland, Me. Combination machine tool, sharper, milling, turret lathe, boring and drilling machine. 10-B-53 & Sec. 28 433
269. Lodge & Davis Machine Tool Co., Cincinnati. Lathes, planers, etc. 28-K-42 433
270. Long & Allstatter Co., Hamilton, Ohio. Punching and shearing machinery. 28-L-46 433
271. Merrill Bros., Brooklyn, N. Y. Drop hammer and trimming press; drop forging machines, etc. Dept. J; D-2 432
272. Miller's Falls Co., Miller's Falls, N.H. Mechanics' tools and hardware. 29-K-L 430
273. Morse Twist Drill & Machine Co., New Bedford, Mass. Machinists' tools. 29-L-50 430
274. Morton Mfg. Co., Muskegon Heights, Mich. Cutters, key maker and iron shaper. 28-J-43 433
275. Narragansett Machine Co., Providence, R. I. Foot power. 28-L-44 433
276. National Machinery Co., Tiffin, Ohio. Bolt and nut machinery. 28-K-46 433
277. Niagara Stamping & Tool Co., Buffalo, N. Y. Tools and machines for sheet metal. 28-L-46 433
For exhibit see page 489.
278. Niles Tool Works Co., Hamilton, Ohio. Machine tools. 12-J-50 430
279. Norton & Jones Machine Tool Works, Plainville, Conn. Light machine tools. 13-G-40 430
280. Oneida Mfg. Chuck Co., Oneida, N.Y. Lathe and drill chucks. 28-N-46 430
281. Parker, Chas., Co., Meriden, Conn. Machinists' iron vices. 29-K-53 430
282. Pond Machine Tool Co., Plainfield, N. J. Lathes, planers, drills. MS. 433
283. Pratt & Whitney Co., Hartford, Conn. Machine tools, gun-making machines; small tools. 13-J-44 433
284. Prentice Bros., Worcester, Mass. Metal-working machines 28-K-38 433
For exhibit see page 484.
285. Quint, A. D., Hartford, Conn. Drilling machine. 28-J-43 433
286. Reed, F. E. & Co., Worcester, Mass. Lathes. MS. 433
287. Saunders', D., Sons, Yonkers, N. Y. Cutting and threading tools. MS. 430
288. Soley, George B., United States Mint, Philadelphia. First steam coining press used by United States government. 26-O-31 433
289. Standard Tool Co., Cleveland, Ohio. Machinists' small tools. 29-J-53 430
For exhibit see page 679.
290. Stiles & Parker Press Co., Brooklyn, N. Y. Wheel presses and drop hammer. 13-J-40 432
291. Tuerk Bros., Chicago. Pneumatic metal-pressing machines. 27-K-37 433
292. Walsh, J. C., Chicago. Tools for brazing and soldering. BH. E—D 430
293. Warner & Swasey, Cleveland, Ohio. Machine tools. 13-J-48 433
294. Weels Machine Works, Toledo, Ohio. Threading and cutting machines. 13-I-40 433
295. Weldless Steel Chain Co., Chicago. Chain rolling machines. BHE. 432

296. Westcott Chuck Co., Oneida, N. Y. Lathe and drill chucks. MS. 433
297. Williams, J. H., & Co., Brooklyn, N.Y. Special drop-forgings from iron, steel, copper and bronze. 432
298. Yeakley M'fg Co., Cleveland, Ohio. Pneumatic hammers. 28-L-45 432

GROUP 72.

Machinery for the Manufacture of Textile Fabrics and Clothing.

299. Ætna Boot & Shoe Hardware Co., Unionville, Conn. Boot and shoe heel nailing machine. S. & L. Bldg. 446
300. Altemus, W. W., & Son, Philadelphia. Textile machinery. 28-N-45 435
301. American B. H.O. & Sewing Machine Co., Philadelphia. Sewing machines. 32-P-47 444
302. American Card Clothing Co., Providence, R. I. Card setting machinery and card clothing. 28-N-47 436
303. American Heeling Machine Co., Brockton, Mass. Lighting heeling machine. S. & L. Bldg. 446
304. Atwood Machine Co., Stonington, Conn. Silk goods machine. 28-O-49 434
305. Baker & Therlin, Saratoga Springs, N. Y. Bellows bottom suction screen. 8-B-47 440
306. Barton M'fg Co., New York. Rubber stamp machinery. 32-Q-45 441
307. Beloit Iron Works, Beloit, Wis. Paper making machine. Sec. 8, B-E-47-49 440
308. Bertrand Lock-Stitch Sewing Machine Co., Boston. Sewing machines. S. & L. Bldg. 444
309. Best, Jno., & Co., Paterson, N. J. Art silk weaving. 29-O-50 434
310. Branson Machine Co., Philadelphia. Knitting machines. 30-P-50 437
311. Brett, Henry W., Boston. Shoe-upper cementing machine. S. & L. Bldg. 446
312. Butterworth, H. W., & Sons Co., Philadelphia. Tenting and drying machine. 30-P-51 436
313. Cheney Bigelow Wire Works, Springfield, Mass. Wire for paper making. 8-B-47 440
314. Crompton Loom Works, Worcester, Mass.
a Looms for silk goods. 32-P-40 434
b Looms for cotton goods. 435
c Looms for woolen goods. 436
d Worsted working machinery and noble comb, coiler and baller. 437
315. Crompton Loom Works, Worcester, Mass.
a Silk looms. 28-O-42 434
b Cotton looms. 435
c Woolen looms. 436
316. Dennison M'fg Co., Chicago. Tag making machine. 28-N-42 440
317. Downingtown M'fg Co., Downingtown, Pa. Duplex beating engine. 8-B-47 440
318. Electrical Machine Co., Chicago. Cloth cutting machine. Dept. J; Y-36 442
319. Elliott Button Fastener Co., Grand Rapids, Mich. Button-attaching machine. S. & L. Bldg. 446

UNITED STATES.

320. Felton, S. A., & Son Co., Manchester, N. H. Boot and shoemakers' brushes. S. & L. Bldg. 446
321. Fenno, Isaac, Boston. Cloth cutting machine. 29-O-52 442
322. Foster Machine Co., Westfield, Mass. Creel and warper, carpet machine and winders. 28-O-45 443
323. Gardner Sewing Machine Co., Aurora, Ill. Sewing and folding machines. 32-O-49 444
324. Globe Buffer Co., Boston. Shoe machinery. S. & L. Bldg. 446
325. Goodyear Shoe M'fg Co., Boston. Shoe machines. S. & L. Bldg. 446
- 325a. Hallawell, James, North Vernon, Ind. Hub blocks and hub block machinery. 14-i-35 449
326. Home Embroidery Machine Co., Kansas City, Kas. Embroidery machine, with samples. 443
327. Humphrey M'fg Co., Towanda, Pa. Shoe lining marker. S. & L. Bldg. 446
328. Jones, Lewis, Bristol, Pa. Mixed fabrics machine. 30-O-52 442
329. Kitson Machine Co., Lowell, Mass. Cotton goods machine. 28-O-40 435
330. Knowles Loom Works, Worcester, Mass. 28-O-38
- a Silk looms. 434
- b Cotton looms. 435
- c Woolen looms. 436
- d Looms for mixed fabrics. 442
331. Lacing Stud Co., Boston. Stud setting machine. S. & L. Bldg. 446
332. Leeson, J. R., Co., Boston. Thread winding machine. S. & L. Bldg. 446
333. Littleton, S. M., Brockton, Mass. Seat wheel machine. S. & L. Bldg. 446
334. Lowell Machine Shop, Lowell, Mass. Cotton goods machine. 28-O-40 435
335. Lufkin, R. H., Boston. Vamp folding machines. S. & L. Bldg. 446
336. Mannion, J. J., & Co., Pittsburg, Pa. Silk looms. 28-O-42 434
337. Marshall Engine Co., Turner's Falls, Mass. Perfecting engine. 8-B-47 440
338. McKay Metallic Fastening Ass'n, Boston. Screw machine, nailer and slugger, strip tacker, etc. S. & L. Bldg. 446
339. McKay & Bigelow, Boston. Heel compressing machine. S. & L. Bldg. 446
340. Milwaukee Brass & Copper Works, Milwaukee, Wis. Parts of paper mill plant. 8-B-47 440
341. Mitchell, Wm. H., Chicago. Embroidery, perforating and sewing machines. 30-O-51 443
342. National Sewing Machine Co., Belvidere, Ill. Sewing machine. 32-P-41 444
343. Naumkeag Buffing Machine Ass'n, Beverly, Mass. Machine and covers. S. & L. Bldg. 446
344. North Press Co., Chicago. Tag machine. 32-Q-42 440
345. Osborne, H. F., Newark, N. J. Tools and machinery for saddle and harness making. S. & L. Bldg. 445
346. Phoenix Mfg. Co., Paterson, N. J. Exhibit of silk throwing and manufacture of silk fabrics. 28-O-49 434
347. Potter & Atherton Machine Co., Pawtucket, R. I. Cotton machinery. 28-O-43 435
348. Reece Buttonhole Machine Co., Boston. Buttonhole machinery. 32-P-42 444
349. Roach, M. J., Anderson, Ind. Metallic steam joint for paper machine. 8-B-47 440
350. Rockingham Machine Co., Exeter, N. H. Boot and shoe machinery. S. & L. Bldg. 446
351. Sawyer Leather Machinery Co., Boston. Leather measuring machine. S. & L. Bldg. 445
352. Schaum & Uhlinger, Philadelphia. Silk machine. 28-O-49 434
353. Shuler & Benninghofen, Hamilton, Ohio. Felts and jackets. 8-B-47 440
354. Singer M'fg Co., New York. Sewing machines for leather work. 32-P, 45 & S. & L. Bldg. 444
355. Smith, F. A., Baltimore. Fibre machine. 29-O-53 439
356. Standard Sewing Machine Co., Cleveland, O. Sewing machines. 32-P-43 444
357. Stanley M'fg Co., Boston. Boot and shoe machines. S. & L. Bldg. 446
358. Standard Rivet Co., Boston. Rivets and studs and machines for driving same. S. & L. Bldg. 446
359. Star & Crescent Mills Co., Philadelphia. Looms for Turkish towel weaving. 29-N-50 442
360. Steele, A. H., Worcester, Mass. Weaving batton, shuttles, etc. 32-O-49 442
361. Sternbergh, J. H., & Son, Reading, Pa. Belt-lacing machines. 32-P-49 444
362. Tubular Rivet Co., Boston. Rivets and rivet setting machines. S. & L. Bldg. 446
363. Union Heel Trimmer Co., Boston. Boot and shoe heel trimming machine. S. & L. Bldg. 446
364. Union Special Sewing Machine Co., Chicago. Sewing machines. 29-P-48 444
365. Vaughn Machinery Co., Salem, Mass. Hide and leather working machinery. S. & L. Bldg. 445
366. Western Screen Plate Works, Appleton, Wis. Screen plates. 8-B-47 440
367. Weyburn Special Machine Co., Chicago. Knitting, cutting and cementing machines. 28-O-47 442
368. Williams M'fg Co., Kalamazoo, Mich.
- a Stuff chests. 8-B-47 440
- b Sewing machines. 32-O-40 444
369. Willimantic Linen Co., of Hartford, Conn., Willimantic, Conn. Cotton thread machinery. 28-O-45 435
- For exhibit see page 431.
370. Wire Grip Fastening Co., Boston. Slugging and nailing machines. S. & L. Bldg. 446

GROUP 73.

Machines for Working Wood.

371. Allis, Edw. P., Co., Milwaukee, Wis. Saw mill. 30-Q-50 448
- For exhibit see page 450.
372. American Machine Co., Detroit, Mich. Pattern makers' machine. 10-E-50 449

DEPARTMENT F.—MACHINERY.

373. American Wood Decorating Machine Co., New York. Embossing machine. 13-F-45 449
374. Art Embossing Machine Co., Indianapolis, Ind. Wood embossing machine. 14-F-33 449
375. Atkins, E. C., & Co., Indianapolis, Ind. Mill supplies. 14-G-34 449
376. Beach, Henry Lloyd, Montrose, Pa. Sawing machinery; saw gauges. B-E-44 447
377. Berlin Machine Works, Beloit, Wis. Wood working machinery. 13-F-42 449
378. Buss Machine Works, Grand Rapids, Mich. Wood working machines. 12-G-53 449
379. Campbell Barrel Machine Co., Baltimore. Barrel machine. SMB.—4-2d floor 449
380. Chicago Rapid Roofing Co., Chicago. Shingling machine. S. M. B.—4 449
381. Covel M'fg Co., Chicago. File room machinery. SMB.—4-2d floor 448
382. Cunningham, E. E., Worcester, Mass. SMB.—4-2d floor. a Band saw blades and jig saws. 447
b Filing, setting and brazing machines. 448
383. Disston, Henry, & Sons, Philadelphia. Saws and tools. 14-F-34 447
For exhibit see page 483.
384. Doig, Wm. S., Brooklyn, N. Y. Box nailing machines. 13-F-44 449
385. Dubuque Specialty Machine Works, Dubuque, Iowa. Mortising machines. 12-E-53 449
386. Egan Co., Cincinnati. Machinery for car shops, etc. 13-F-46 449
387. Enterprise M'fg Co., Columbiana, Ohio. Portable saw-mill. SMB.—4-2d floor 448
388. Fay, J. A., & Co., Cincinnati. Machinery for navy yards, etc. 13-F-38 449
389. Folding Sawing Machine Co., Chicago. Sawing machine. SMB.—4-1st floor 449
390. Fox Machine Co., Grand Rapids, Mich. Wood working machinery. 13-J-43 449
391. Garland, M., Bay City, Mich. Half center deck, log roller and deck stop. SMB.—1-1st floor 448
392. Goehring, Charles L., Allegheny, Pa. Moulding and carving machines. 14-F-35 449
393. Goodell & Waters, Philadelphia. Wood-working machinery. 13-G-48 449
394. Greenlee Bros. & Co., Chicago. Wood-working machinery. 13-F-48 449
395. Grier, W. W., Verona, Pa. Ingraining machine. 12-E-53 449
396. Hall & Brown Wood Working Machine Co., St. Louis. Planing, matching machines, etc. 12-F-51 449
397. Hallawell, James, North Vernon, Ind. Woodworking machinery. 14-I-35 449
398. Hill, W. E., & Co., Kalamazoo, Mich. Steam log turner. SM. 448
399. Holmes, E. & B., Buffalo, N. Y. Woodworking and barrel machinery. 12-F-50 449
400. Houston, Levi, Montgomery, Pa. Wood working machines. 13-J-41 449
401. Luce, James R., Stevens Point, Wis. Circular saw. 14-F-32 447
402. Milwaukee Carving Co., Milwaukee, Wis. Wood working machines. 13-G-44 449
403. Mitts & Merrill, Saginaw, Mich. Edging grinders. SM. 448
404. Moore Carving Machine Co., Minneapolis, Minn. Wood carving machine. 14-G-34 449
405. Moseley & Co., Elgin, Ill. Bench lathes, etc. 32-Q-42 449
406. Narragansett Mch. Co., Providence, R. I. Foot-power circular saw. 28-L-44 447
407. Novelty Iron Works, Dubuque, Iowa. Shingle machinery. SMB.—4-2d floor 448
408. Plumer, N., Durand, Wis. Wood-sawing machine. SMB.—Sec. 4 447
409. Prybil, Paul, New York. Saws, planers, etc. 13-F-42 449
410. Rohlmann M'fg Co. Wood-carving machine. 14-B-32 449
411. Simonds Mfg. Co., Fitchburg, Mass. Saws-and-machine-knives. 14-I-35 448
412. Smith, H. B., Machine Co., Smithville, N. J. Wood working machinery. 13-F-41 449
413. Smith & Phillips M'fg Co., Chicago. Woodworking machinery. S. M. B.—3-1st floor 449
414. Stearns Mfg. Co., Erie, Pa. Saw mill machinery. SM. 448
415. Valley Iron Works Mfg. Co., Appleton, Wis. Sawing machines, etc. 14-G-33 449
416. White, The John A., Co., Dover, N. H. Woodworking machinery. 10-E-50 449
417. Woods, S. A., Machine Co., Boston. Wood working machinery. 14-F-35 449

GROUP 74.

Machines and Apparatus for Type-setting, Printing, Stamping, Embossing, Book Making and Paper Working.

418. American Box Machine Co., Amsterdam, N. Y. Cutting and paper box machines. 32-Q-38 462
419. American Type Founders' Co., New York. Casting machines. 33-T-40 545
420. Avery & Burton, Chicago. Perforating machinery. 34-P-36 468
421. Babcock Printing Press Mfg. Co., New London, Conn. Printing presses. 34-P-34 450
422. Barnhart Bros. & Spindler, Chicago. a Old Ramage press. 33-T-38 450
b Type casting machines. 455
423. Brown Folding Machine Co., Erie, Pa. Folding machines. 32-S-39 468
424. Brown, R. H., & Co., New Haven, Conn. Wire stitching machinery. 34-P-36 460
425. Burrell, D. H., & Co., Little Falls, N. Y. Paper feeding machines. 34-P-36 468
For exhibit see page 770.
426. Campbell Printing Press Mfg. Co., New York. a Printing presses. 36-P-30 450
b Paper folding machinery. 468
427. Chamber Bros. Co., Philadelphia. Paper folding machines. 34-P-36 468
428. Child Acme Cutter & Press Co., Boston. Paper cutting machines. 34-P-36 462

UNITED STATES

429. Connecticut Co., New York. Type-setting machine. 34-P-35 455
430. Cottrell, C. B., & Sons, Westerly, I. Printing presses. 34-P-36 450
For exhibit see page 773
431. Dexter Folder Co., Fulton. Folding machinery. 32-S-41 468
432. Duplex Printing Press Co., Battle Creek, Mich. Printing presses. 36-P-31 450
433. Elliott Machine Co., Newton, Mass. Thread stitching machine. 34-P-36 460
434. Golding & Co., Boston. *a* Printing presses. 35-T-34 450
b Paper folders, etc. 468
435. Goss Printing Press Co., Chicago. Newspaper perfecting presses. 37-P-22 450
436. Hamilton Mfg. Co., Two Rivers, Wis. Printers' material. 33-T-39 463
437. Hoe, R., & Co., New York. Printing presses. 37-P-21 450
438. Hickok, W. O., Mfg. Co., Harrisburg, Pa. Bookbinders' machinery. 34-S-35 460
439. Howard Iron Works, Buffalo, N. Y. Paper cutters. 36-P-29 462
440. International Typograph Co., Cleveland, Ohio. Type setting and type line casting machine. 34-S-34 455
441. Johnson Peerless Works, New York. *a* Job presses. 35-T-35 452
b Paper cutters, etc. 462
442. Keck, C., & Co., Cincinnati. Beveling machine. 34-P-36 468
443. Kelsey Press Co., Meriden, Conn. Printing presses. 36-P-29 450
444. Lanston Monotype Machine Co., Washington, D. C. Monotype machine. 34-S-33 452
445. Liberty Machine Works, New York. Printing presses. 35-T-36 452
446. Lieb Machine Works, Chicago. Embossing and inking presses. 34-P-36 468
447. McAdams, John, & Sons, Brooklyn. Printing machinery. 32-S-42 468
448. McIndoe Bros., Boston. Cylinder job presses. 36-O-30 452
449. Mergenthaler Linotype Co., New York. Type-setting machine. 34-S-33 455
450. Miehle Printing Press and Mfg. Co., Chicago. *a* Printing press. 34-Q-33 450
b Paging machine. 468
For exhibit see page 638.
451. Potter, C., Jr. & Co., New York. Printing presses. 37-P-24 450
452. Printers' Exchange Co., New York. *a* Type making machinery. 34-P-3 455
b Paper cutters. 462
c Cabinets, stands, etc. 463
d Printing machinery. 468
453. Prouty Co., Chicago. Printing presses. 34-S-34 450
454. Rosback, F. P., Chicago. Toilet paper machine. 32-Q-39 468
455. Sanborn, Geo. W., & Sons, Mystic, Conn. *a* Paper cutting machines. 32-S-40 462
b Embossing press. 468
456. Scott, Walter, & Co., Plainfield, N. J. *a* Printing presses. 36-P-27 450
b Stereotype machines. 459
c Paper cutters. 462
d Folding machines. 468
For exhibit see page 637.
457. Seybold Machine Co., Dayton, Ohio. Book binding machinery. 34-P-36 460
458. Sheridan, T. W. & C. B., New York. Book binding machinery. 34-P-35 460
459. Shniedewend & Lee Co., Chicago. *a* Printing presses. 35-T-34 450
b Job presses. 452
c Electrotypers' machines. 458
d Paper cutters. 462
460. Smyth Mfg. Co., Hartford, Conn. Book-sewing machines. 34-P-36 460
461. Standard Matrix Machine Co., St. Louis. Type setting machine. 34-Q-33 455
462. Thorne Typesetting Machine Co., Hartford, Conn. Typesetting machine. 34-Q-34 455
463. Thomson, John, Press Co., New York. Printing presses. 35-T-33 450
464. Walker, W. G., & Co., Madison, Wis. Printing presses. 34-P-32 450

GROUP 75.

Lithography, Zincography and Color Printing.

465. Duplex Color Disc Co., Chicago. Duplex color ink plate for printing presses. 35-T-37 469
466. Scott, Walter, & Co., Plainfield, N. Y. Lithographic distribution presses. 37-P-25 469

GROUP 76.

467. Cooper, E. Russell, Chicago. Sign painting machine. 32-S-45 478
468. Ewen, Warren, Jr., & Co., Chicago. Multi-color process exhibit. 32-S-45 474

GROUP 77.

Miscellaneous Hand-Tools, Machines and Apparatus Used in Various Arts.

469. Acme Machine Co., Moline, Ill. Dish-washing machines. 32-Q-47 484
470. American Road Machine Co., Kennett Square, Pa. Road-making machines. W—Outdoor 488
471. American Street Cleaning Machine Co., Sag Harbor, N. Y. Street cleaning machine. W—Outdoor 488
472. Ashcroft Mfg. Co., New York. Machinery appliances. 25-K-24 489
473. Blakeslee, G. S., Co., Chicago. Dishwasher machine. Casino 484
474. Bowsher, N. P., South Bend, Ind. Speed or motion indicators. 8-B-47 489
475. Bristol's Mfg. Co., Waterbury, Conn. Machinery appliances. 25-N-24 489
476. Chicago Fire Proof Covering Co., Chicago. Mineral, wool and other steam pipe and boiler coverings. BHE. 489
477. Cochrane, Josephine, Park Manor, Ill. Dish-washing machine. Exposition restaurants 484
478. Columbian Metallic Rod Packing Co., Philadelphia. Metallic packing. 15-F-31 489
479. Consolidated Mfg. Co., Philadelphia. Brush machine, brushes, etc. 25-O-25 486

DEPARTMENT F.—MACHINERY.

480. Crosby Steam Gage and Valve Co., Boston. Steam gages, safety valves, etc. 25-K-22 486
481. Crown Pen Co., Chicago. Pen making machinery. 25-K-25 486
482. Dannmeyer, M., New York. Laundry machinery. 32-Q-41 484
483. Davis-Creswell M'fg Co., Denver, Col. Lawn hydrants and street washers. 488
484. Delahanty Dyeing Machine Co., Philadelphia. Machinery for dyeing fibres. 30-P-50 486
485. Detroit Lubricating Co., Detroit, Mich. Oil cups, valves, etc. 25-M-25 489
486. Donnell, E. P., M'fg Co., Chicago. Wire stitching machines and index cutter. 30-P-53 488
487. Electro Automatic Appliance Co., Chicago. Automatic engine stop. 28-L-44 489
488. Falkenau, Arthur, Philadelphia. Tablet compressing machine. 28-K-41 485
489. Faneuil Watch Tool Co., Boston. Watchmakers' lathes, etc. 32-Q-41 480
490. Fisher Governor Co., Marshalltown, Ia. Governors. 25-M-24 489
491. Fuel Economizer Co., Matteawan, N. Y. Fuel economizer. PH.W.D.Ry. 489
492. Geneva Optical Co., Chicago. Drill, lens and prism measure, grinder. 32-S-47 486
493. Goodsell Packing Co., Chicago. Engine packings, etc. 14-I-32 489
494. Hardy, F. A., Chicago. Machines for grinding lenses and fitting them to the eye. 32-Q-47 486
495. Harrisburg Foundry & Machine Works, Harrisburg, Pa. Steam road rollers. W—Outdoor. 488
496. Hawarden Furnace Grate Co., Hawarden, Ia. Furnace grate. 489
497. Hersey M'fg Co., Boston. Soap machinery. 31-T-53 486
498. Hospital Supply Co., Sandusky, Ohio. Laundry machinery. 32-Q-46 484
499. Hotchkiss, James F., New York. Boiler cleaner model. 25-M-24 489
500. Kasbey & Mattison Co., Ambler, Pa. Steam pipe and boiler covering. BHE. 489
501. Kaestner, Chas., & Co., Chicago. Paint mills. 10-A-50 486
502. Kelly, O. S., Co., Springfield, Ohio. Steam road rollers. W—Outdoor. 488
503. Kennedy Wire Nail Machine Co., Chicago. Wire nail machine. 10-D-51 483
504. Kinsley & Frisby, Bridgeport, Conn. Chime whistles. BH. 489
505. Lahman, W. H., Chicago. Grates. BHE.—D 489
506. Lonergan, J. E., & Co., Philadelphia. Safety steam and lubricating appliances. 26-K-26 489
507. Lubin, Siegmund, Philadelphia. Microscopes, etc.; machines for making. 32-S-47 486
508. Lunkenheimer Co., Cincinnati. Machinery appliances. 25-O-24 489
509. Matthews, Hugh D., Chicago. Tablet machine. 32-S-45 485
510. Miller, Mrs. Addie Dickman, Chicago. Dish-washing machine. 32-Q-47 484
511. Moore, Samuel, Providence, R. I. Bead chain machine and products. 32-Q-41 481
- For exhibit see page 1004.
512. Nathan Mfg. Co., New York. Oil cups; lubricators, etc. 25-M-25 489
513. National Electric Valve Co., Cleveland, Ohio. Electric tank and burner regulators. O—PH. 489
514. New York Oil Cabinet Co. Oil cabinets. 489
515. Northhampton Emery Wheel Co., Leeds, Mass. Emery and corundum wheels. 10-D-73 487
516. Norton Emery Wheel Co., Worcester, Mass. Emery and corundum wheels. 10-E-53 487
517. Olsen, Tinius, & Co., Philadelphia. Machinery for testing strength of materials. 25-O-24 490
518. Osborn, C. D., Chicago. Machine for the manufacture of gloves. Sec. 32—Col. S-45-46 486
519. Penberthy Injector Co., Detroit, Mich. Injector, oil, cups and ejector. 25-M-24 489
- For exhibit see page 1004.
520. Pope, R. C., Chicago. Reversible horse rollers. W—Outdoor. 488
521. Riehle Bros. Testing Machine Co., Philadelphia. Machines for testing strength of material. 25-O-25 490
522. Russell & Co., Massillon, Ohio. Steam road rollers. W—Outdoor. 488
523. Schaffer & Budenberg, New York. Automatic injectors and tachometers. BH. 489
524. Seaburg, J. A. W., Machine Co., Malden, Mass. Laundry machines. 32-Q-45 484
525. Sherwood Mfg. Co., Buffalo, N. Y. Engine and boiler supplies. 25-K-25 489
526. Simons Bro. & Co., Philadelphia. Thimbles, process of making. 14-I-35 486
527. Smith, Andrew H., New York. Street cleaning machine and street block sawing machine. W—Outdoor. 488
528. Smith, James A., Chicago. Vegetable boiler compound. BH. E.—D 489
529. Springfield Emery Wheel Co., Bridgeport, Conn. Emery wheels and grinders. 10-E-53 487
530. Thomas, Joshua, Cleveland, Ohio. Water feed regulator and governor. BH. 489
531. Troy Laundry Machinery Co., L'td., New York. Laundry machinery. 32-Q-45 484
- For exhibit see page 1010.
532. Tuerk Bros., Chicago. Watch and clock tools. 27-K-37 480
533. U. S. Mangle & Laundry Machine Co., Chicago. Laundry machinery. 32-S-42 484
534. U. S. Street Sweeping Co., New York. Street sweeping machines. W—Outdoor. 488
535. Vacuum Oil Co., Chicago. Models of the Rochester and Olean works. 25-K-23 489
536. Watson, N. A., Erie, Pa. Excelsior boiler feeder. B-H. 489
537. Water Circulating and Grate Co., Philadelphia. Water circulating and shaking grate. B-H-E 489.

UNITED STATES.

538. Western Wheeled Scraper Co., Aurora, Ill. Road roller and street sweeper. Dept. G 488
 539. Wolf, Sayer & Heller, Chicago. Meat market supplies. Dept. A 486

GROUP 78.

Machines for Working Stone, Clay and Other Minerals.

540. Caruss, J. H., & Co., New York. Machinery for grinding lenses. 32-S-46 491
 541. Columbus Belt Works, Columbus, O. Machines for making bolts. 10-A-52 493
 542. Compress Wheel Co., Chicago. Polishing and buffing wheels. 10-A-53 491
 543. Crane Elevator Co., Chicago. Engines for rolling-mill service. 29-L-51 493
 544. Diamond Machine Co., Providence, R. I. Grinding and polishing machinery. 10-B-33 491
 For exhibit see page 479.
 545. Gouverneur Machine Co., Gouverneur, N. Y. Stone mill saw gang and sand-pump for same. 10-B-53 491
 546. Kennedy, Edward & Son, Minneapolis. Mill picks. N-O-44-45 491
 547. Peck, Stow & Wilcox Co., Southington, Conn. Shears, folder, former, etc. 10-A-51 493
 548. Severance Nail Machine Co., Duluth, Minn. Nail cutting machine. 10-B-51 493

GROUP 79.

Machinery Used in the Preparation of Food.

549. Allis, Edward P., Co., Milwaukee, Wis. Flour mill machinery. 3-Q-50 494
 For exhibit see page 450.

550. Barnard & Leas Mfg. Co., Moline, Ill. Flour mill machinery. 30-Q-53 494
 551. Buckeye Iron and Brass Works, Dayton, Ohio. Cotton seed oil mill model. 28-K-44 496
 552. Chaurant, Walter, Co., New York. Chocolate machinery. 33-T-49 495
 553. Condon, J. W., Chicago. Mixing machinery. 33-T-47 495
 555. Dell, John C., & Son, Philadelphia. Coffee and spice mills. 31-T-50 497
 556. Foos Mfg. Co., Springfield, Ohio. Crushing and grinding mills. 32-Q-49 494
 557. Harrison, L. D., New Haven, Conn. Portable corn and flour mills. 31-T-52 494
 558. Hersey M'f'g Co., Boston. Cube sugar machine. 31-T-53 495
 559. Nordyke & Marmon Co., Indianapolis, Ind. Machinery for preparing cereals. 30-Q-51 494
 560. Raestner, Chas., & Co., Chicago.
 a Mills for the preparation of cereals. 10-A-50 494
 b Spice mills. 497
 561. Smith, John E., & Sons, Buffalo, N. Y. Meat choppers and mixers. 31-T-50 497
 562. Squire, Geo. L., M'f'g Co., Buffalo, N. Y. Machines for preparation of food. Guatemala Pav. 494
 563. Webster, Warren, & Co., Philadelphia. Oil extractor. PP. 496
 564. Westerman, E., & Co., Chicago. Dough mixers and rollers. 31-T-51 494

AUSTRIA.

GROUP 73.

1. Mueller, Josef, Kvasnay (Bohemia).
Protective apparatus for circular saws. 448

GROUP 76.

2. Popelka, F., Saroiner (Bohemia).
Lithographic work. 473

GROUP 79.

3. Resnicek, Adolf, Prag. Machines for
making bonbons. 495

BELGIUM.

GROUP 69.

1. Dervaux & Co., Farciennes. Water
filter. 417
2. Heinrichs, Jos., Verviers. Plans of
steam engines. 415
3. Lindebriengs-Cuyx, H., Louvain.
Leather belting, shafting, etc. 416
4. Société anonyme des forges, usines et
fonderies de Gilly, Gilly. Gas motor. 415

GROUP 70.

5. Bertels, Jos., Antwerp. Fire ladder. 427
6. Soubre & Berryer, Liège. Fire
engines. 425
7. Tombeur & Co., Brussels. Fire ex-
tinguisher. 429

GROUP 72.

8. Couvreur, Maurice, Verviers. Paper
tubes, bobbins, spindles, etc., for spin-
ning. 437
9. Defraiteur, Eugene, Verviers. Paper
tubes for spinning. 437
10. Duesburg-Delrez, M., Verviers. Cards
for worsted working machinery. 437
11. Houget, Ferdinand, Verviers. Cards
for worsted working machines. 437
12. Joris, Emile, Statte-huy. Embroider-
ing machine. 443
13. Koch, A., Antwerp. Embroidering
machines. 443
14. Lonhienne, A., Fils, Verviers. Paper
tubes, bobbins, spindles, etc., for spinning. 437

15. Martin, Celestin, Verviers. Worsted
working machine. 437
16. Société anonyme Vervietoise de con-
struction, Verviers. Drawing of worsted
working machine. 437

GROUP 75.

17. Dars & Co., Merbes-le-Chateau. De-
signs for posters in colors. 470

GROUP 76.

18. Sober, Edmond, & Frères, Brussels.
Printed handkerchiefs. 479

GROUP 77.

19. Des Cressonnières, A. & E., Brussels.
Machine for grinding and drying. 486
20. Foidart, Mathieu, Brussels. Machin-
ery appliances, springs, etc. 489
21. Henricot, Emile, Court-Saint-Etienne.
Oil cans. 489

GROUP 78.

22. Koch, A., Antwerp. Grinding and
engraving machines. 491
23. Thomas, Père & Fils, Liege. Portable
forges. 493

GROUP 79.

24. Candeil, Ch., Brussels. Confectioners'
machinery. 495
25. Lafèvre, H., Brussels. Confectioners'
machine. 495
26. Van Duuren, Nicolas, Brussels. Bolt-
ing mill cylinder. 494

CANADA.

GROUP 69.

1. Abell, John, Engine & Machine Works,
Toronto. Automatic engine. 415
2. Bunker, H., Barrie, Ont. Grip clutch. 416
3. Darling Bros., Montreal. Clutch pul-
leys. 416

4. Dobbie & Stuart, Thorold, Ont. Hoist-
ing machines. 420
5. Earle, S. R., Belleville, Ont. Inject-
ors. 77-489
6. Jones, C. C., Elmsdale, P.E.I. Barrel
pump. 417

CANADA.

7. **Kingsley Boiler Co., St. John, N. B.**
a Water tube boiler. 413
b Water tubes. 422
8. **Laird & Watson, Hamilton, Ont. Boilers.** 413
9. **McAvity, T., & Sons, St. John, N. B.**
a Pumps. 417
b Steam fog whistle. 77-489
c Valves. 422
d Boiler feeder, brass work. 77-489
10. **Morrison, James, Toronto.**
a Safety valves. 422
b Gauges. 77-489
11. **Robb Engineering Co, Amherst, N.S. Engine.** 415
12. **Spooner, A. W., Port Hope, Ont. Cop-perine.** 422
13. **Waterous Engine Works, Brantford, Ont. Grip pulleys.** 416
14. **Williams, A. R., Toronto, Ont. Split pulleys.** 416
15. **Wilson, J. C., & Co., Picton, Ont. Waterwheel and cogs.** 414

GROUP 70.

16. **Ernst, Charles F., New Hamburg, Ont. Model of fire escape.** 427
17. **Waterous Engine Works, Brantford, Ont.**
a Fire engine. 425
b Trucks and reels. 426

GROUP 71.

18. **Bertram, John, & Sons, Dundas, Ont. Planer and drill.** 433
19. **Butterfield & Co., Rock Island, Quebec. Machinists' small tools.** 430
20. **Central Bridge Co., Peterboro, Ont. Steam hammer.** 432
21. **Drake, F. J., Belleville, Ont. Saw set and gummer.** 73-448
22. **Stevens, Hamilton & Co., Galt, Ont. Shaping and drilling machines.** 433

GROUP 72.

23. **Anderson, C. E., London, Ont. Moss picking machine.** 439
24. **Creelman, Wm., & Son, Truro, N. S. Flax spinning wheel.** 438

GROUP 73.

25. **MacGregor, Gourlay & Co., Galt, Ont. Woodworking machinery.** 448
26. **Waterous Engine Works, Brantford, Ont. Sawmill.** 448

GROUP 74.

27. **Dominion Type Foundry Co., Montreal.**
a Type. 466
b Printers' material. 468
28. **Spooner, A. W., Port Hope, Ont. Patent labeler.** 468

GROUP 75.

29. **Prouting, Silas W., Toronto. Mantel designs, etc.** 469

GROUP 77.

30. **Brockville Wringer Co., Brockville, Ont.**
a Wringers. 484
b Mangles. 486
c Meat choppers. 486
31. **Cochrane Bros., St. Thomas, Ont. Wire woven fence machine.** 483
32. **DeCew & Carpenter, Hamilton, Ont. Capping mashing.** 486
33. **LeBaron, Geo. A., Sherbrooke, Que. Wire-working machinery.** 483
34. **Lent & Coyne, Ridgetown, Ont. Washing machines and wringers.** 484
35. **McAvity, T., & Sons, St. John, N. B. Lubricators and grease cups.** 489
36. **Peerless Mfg. Co., Hamilton, Ont. Washing machines.** 484
37. **Williams, A. R., Toronto, Ont. Iron tools.** 486

GROUP 78.

38. **Close, J. A., Woodstock, Ont. Brick machine.** 492
39. **Waterous Engine Works, Brantford, Ont. Brick machine.** 492

GROUP 79.

40. **Vessot, S., & Co., Joliette, Quebec. Grain grinders.** 494

CEYLON.

GROUP 72.

1. **Ceylon Commission.**
a Machine for weaving nets. 439
b Machine for cleaning skins. 445

GROUP 77.

2. **Ceylon Commission.**
a Jewelers' and silversmiths' tools. 481
b Washer woman's iron. 484
c Medicine cutter. 485
d Tin makers, potters' tile and brick makers' tools. 486

GROUP 78.

3. **Ceylon Commission. Gem polisher.** 491

GROUP 79.

4. **Ceylon Commission.**
a Oil chekku. 496
b Grinding stones, pestle and mortar. 497

DENMARK.

GROUP 72.

1. Sorensen, Fred, Esbjerg, Jutland.
Shoe re-soling machine. Dept. H 446

GROUP 75.

2. Cato, Chr. J., Copenhagen. Chromo-lithography. Dept. L 469
3. Hendriksen, Fred., Copenhagen. Wood engravings. Dept. L 470
4. Hoffenberg's Establishment, Copenhagen. Chromo-lithographs. Dept. L 470
5. Jacobsen, Joh., Copenhagen. Lithography. Dept. L 470
6. Kittendorff, A., Copenhagen. Lithographs after Danish painters. Dept. L 470

GROUP 76.

7. Frolich, Lorenz, Copenhagen. Original etchings. 475

8. Hendriksen, Fred., Copenhagen. Photo-typogravures and illustrated books. Dept. L 471
9. Pacht & Crone's Illustration Establishment, Copenhagen. Collotypes. Dept. L 474

GROUP 77.

10. Dahlstrom & Lohmann, Copenhagen. Automatic greasing apparatus. Dept. A 489
11. Jorgensen, G. H., Copenhagen. Apparatus to prevent machinery running hot. Dept. A 489

GROUP 79.

12. Petersen, Linved, Copenhagen. Coffee roasting machine. Dept. A 497
13. Schroder & Jorgensen's Succrs., Copenhagen. Coffee mills. Dept. A 497

GERMANY.

GROUP 69.

1. Balcke, Telling & Co., Benrath near Duesseldorf. Forged iron pipes. 422
2. Berlin-Anhaltische Maschinenbau-Aktiengesellschaft, Dessau and Berlin. Gearing work. 416
3. Briegleb, Hansen & Co., Gotha. Turbine and model. 414
5. Daimler Motoren-Gesellschaft, Cannstatt. Motors. 415
6. Deutsch-Oesterreichische Mannesmann Roehrenwerke, Berlin. Cylinder for the transportation of liquid gas. 422
8. Duerr & Co., Ratingen, near Duesseldorf. Boilers. 413
9. Duesseldorf-Ratingen Roehren Renelfabrik vorn Duerrs Co., Ratingen. Boiler. 413
10. Felten & Guellaume, Coeln. Rope of hemp and cotton. 416
11. Fitzner, Wilhelm, Laurahuette. Iron pipes, drums, etc. 422
12. Gasmotoren Fabrik Deutz, Cologne-Deutz. Gas and petroleum engines. 415
13. Germania Schiffu, Maschinenbau Aktiengesellschaft, Berlin. Pumps. 417
14. Grob, J. M., & Co., Leipsic. Motors. 415
15. Krupp Fried, "Grusonwerk," Magdeburg-Buckau Motors and engines. 415
For exhibit see page 481.
16. Koerting Bros., Koertingshof, Hanover. Drawings of gas motors, etc. 415
17. Kroll, G. A. & Co., Hanover. Patent screws, dumb-waiters, etc. 420
18. Laissle, Hugo, Reutlingen-Oberkochen. Gearing. 416
18a. Luermann, Fritz W., Osnabrueck. Drawings of boilers. 413

19. Luther, G., Brunswick. Engines. 415
20. Maschinenfabrik, Geishngen. Turbine water wheels. 414
21. Mohr & Federhoff, Mannheim. Drawings of cranes. 420
22. Ragodt, Dr. W., Hanover. Ice machines. 424
23. Rothe & Gruenewald, Berlin. Steam generators. 413
24. Schichau, F., Elbing. 1000 horsepower, triple expansion, stationary engine. 415
25. Wolf, R., Magdeburg, Buckau. Engines. 415
For exhibit see page 476.

GROUP 70.

26. Bithorn, M., Berlin. Ladders. 427
27. Blasberg, Eugen, Duesseldorf. Extension ladders. 427
28. Magirus, C. D., Ulm-on-the-Danube.
a Photos of ladders. 427
b Photos of fire extinguishing apparatus. 429

GROUP 71.

29. Industriewerke Aktiengesellschaft, Landsberg, Bavaria. Tools. 430
30. Krupp, Friedr., Essen. Parts of machinery. 432
31. Philippsohn & Beschziner, Berlin. Cutting machines. 433

GROUP 72.

32. Bauch, A., successor Lichtenstein, Saxony. Weaving utensils.
33. Deutsch-Amerikanische Maschinen-gesellschaft, Frankfort-on-the-Main. Machines for the manufacture of shoes. 446

GERMANY.

34. Eckhardt, Louis, Hamburg. Machines for making boots and shoes. 446
 35. Gessner, Ernst, Aue, Saxony. Machines for the textile industry.
 36. Hoffmann, Oswald, Neugersdorf, Saxony. Yarn reel. 439
 37. Lintz & Eckhardt, Berlin.
 a Embroidery machines. 443
 b Sewing machines. 444
 38. Monforts, A., M., Gladbach.
 a Combing machine. 435
 b Gig, cleaning machine. 436
 39. Pabst, Ernst, Aue, Saxony. Tin spoons for textile work.
 40. Staedler & Uhl, Schwabach, Bavaria. Pins for worsted spinning, etc. 437
 41. Yust, J., & Co., Chemnitz, Saxony. Weaving utensils.

GROUP 73.

42. Forchheimer, Salomon, Stromlaenge, Passau. Safety contrivance for circular saws. 447
 43. Kirchner, Ernst & Co., Leipsic.
 a Saws. 447
 b Woodworking machinery. 448
 44. Roller, A., Berlin. Machines for the manufacture of matches and match boxes. 449

For exhibit see page 474.

GROUP 74.

45. Brechmer Bros., Leipsic, Plagwitz. Wire and thread stitching machine. 460
 46. Eck, Josef & Sons, Duesseldorf. Embossing machines, etc. 468
 47. Foerste & Tromm, Leipsic. Ruling machines. 468
 48. Maschinenfabrik-Augsburg, Augsburg, Bavaria. Rotary press. 450
 49. Meisenbach, G. & Co., Munich. Book-printing articles. 463
 50. Molitor & Co., Heidelberg. Lightning press. 450
 51. Roeder, C. G., Leipsic. Products of book and music printing. 466
 52. Saltzkorn, E. & Nikolai L., Dresden. Bookbinding machines. 460
 53. Schnoezula, Franz, Berlin. Stamps and types. 466
 54. Wunderlich, Bruno, Berlin. Corroded cylinders. 468

GROUP 76.

55. Albert, Jos., Munich. Colored half-tones, illustrated works and photogravures. 479
 56. Anklaam, Albert, Berlin. Impressions of engravings. 479
 57. Baumgarten, E. von, Munich. Chromo-lithographs. 479
 58. Berliner Kunsdruck und Verlagsanstalt vorm. A. & C. Kaufmann, Berlin. Artistic reproductions of chromo-lithography, etc. 479
 59. Foerster & Borries, Zwiskau. Samples of printing, chromo types, etc. 479
 60. Frisch, Albert, Berlin. Prints. 479
 61. German Imperial Printing Office, Berlin. Heliographic products. 479
 62. Hanfstaengel, Franz, Munich. Photogravings, zinc etchings. 479

63. Kast & Ehinger, Stuttgart. Lithographic and typographic colored prints. 479
 64. Max Junghaendel, Berlin. Prints on silk. 479
 68. Koesel'sche, Jos., Buchhandlung, Kempten. Photo-lithograph, etc. 479
 69. Lithographisch Artistische Anstalt, Munich. Chromo lithograph. 479
 70. Meischenbach, G., & Co., Munich. Ruling for half tones. 472
 71. Meissner & Buch, Leipsic. Colored prints. 479
 72. Menne & Co., Crefeld. Silk labels, initials, trade marks. 479
 73. Muehlmann, T., Berlin. Engravings for fancy paper, etc. 479
 74. Obernetter, J. B., Munich. Heliogravures and phototypes. 479
 75. Papierfabrik Sondern, Sondern i-W. Silk labels for bottles.
 76. Photographische Gesellschaft, Berlin. Reproductions of art work, Photogravure. 479
 77. Pinkau, Emil, Leipsic. Lithographic products. 479
 79. Proesanter, Morits, Nachf, Leipsic. Lithographs. 479
 80. Reichsdruckerei Kaiserlich Deutsche, Berlin. Products of art printing, heliography, etc. 479
 81. Riffarth, Heinr. & Co., Berlin. Photogravures, products of zincography and copper printing. 479
 82. Schuster, Rudolf, Berlin. Prints and etchings, photogravures. 479
 83. Schultz, C. H. S., Schoeneberg, near Berlin. Photo-pastels on silk. 479
 85. Voigt, Karl, Berlin. Engravings. 479
 86. Vereinigung der Kunstfreunde fuer Aintliche, Publicationen der Koenigl, National Galerie, Berlin. Colored print reproductions. 479
 87. Voigt & Hochgesang, Inhaber R. Brunnée, Goettingen. Microscopic designs for etching. 476
 88. Wagner, R., Berlin. Etchings. 479

GROUP 77.

89. Beckert, Ernst, Chemnitz, Saxony. Needles for knitting machines. 486
 90. Gehre, M., Rath, near Duesseldorf. Steam gauge. 489
 91. Gruene, Wilh., Berlin. Stamps for stamping glass. 486
 92. Heipcke, Ed., Brunswick. Butchering machinery. 486
 93. Hemmer, L. Ph., Aachen. Wringer and washing machine. 484
 94. Lorentz & Poltermann, Altenburg, Saxony. Glove press. 486
 95. Malmédie & Co., Duesseldorf. Machinery for the wire industry. 483
 96. Pretzel, Franz & Co., Berlin. Gearing articles, steam pipe cleaner, etc. 489
 97. Reinecker, J. C., Chemnitz, Saxony. Tools for machinery and repairing. 489
 98. Reutlinger Strickmaschinenfabrik, Reutlingen, Wurttemberg. Knitting machines. 486
 99. Rockstroh, F., Goerlitz. Guages. 489

DEPARTMENT F.—MACHINERY.

GROUP 78.

100. Bock, O., Weimar. Model and drawing of a steam brick-kiln and factory of clay goods. 492
101. Eisenwerke vorm Nagel & Kaemp, Aktiengesellschaft, Hamburg. Portland cement works and crane plant. 492
102. Hoffmann, Fr., Berlin. Model and drawings of kiln for brick, lime and cement. 492
103. Maschinenfabrik Geislingen, Geislingen. Cement works. 492
104. Polysius, G., Dessau. Portland cement works equipment. 493
105. Schmelzer, L., Magdeburg. Tile machines, clay cutters, etc. 492
106. Seger, Dr. H., & E. Kramer, Berlin. Machines and apparatus for the test of Portland cement. 492

GROUP 79.

107. Bertram, Hermann, Halle-a-d-S. Dough parting machine. 494

108. Braunschweiger Maschinenbauanstalt, Brunswick. Machines for the manufacture of sugar. 495
109. Eisenwerke vorm Nagel & Kaemp, Aktiengesellschaft, Hamburg. Drawings of rye-mill and rice-mill. 494
110. Foelsche, R., Halle-on-the-Saale. Drawing of a beet-sugar refinery, photographs of centrifugal machines and transportation plant. 495
111. Lehmann, J. M., Dresden-Loebtan. Confectioners' machinery. 495
112. Macco, Heinrich, Siegen. Drawing of a rye-mill. 494
113. Maschinenfabrik Geislingen, Geislingen. Cereal mills. 494
114. Mayer, Hermann, Elberfeld. Confectioners' machinery. 495
115. Muehlenbau-Anstalt und Maschinenfabrik vorm Gebr. Seck, Dresden. Milling machinery. 494
116. Werner & Pfeiderer, Cannstadt. Kneading and mixing machines. 494
For exhibit see page 479.

GREAT BRITAIN.

GROUP 69.

1. Allin, S. Sealy, London. Water motor. 414
2. Cady & Co., Ltd., Nottingham. Smoke-consuming fire-bars. 415
3. Denny & Co., Dumbarton, Scotland. Working models of marine engines. 415
4. Economic Smokeless Fire Company, Bradford. Smoke-consuming and fuel economizing appliances. 415
5. Galloways, Ltd., Manchester. Engine driving shafting. 416
6. Gasking Patent Driving Belt Company, Enfield. Belting and laces. 416
7. Griffin, John, Bally Macthomas, Cork, Ireland. Belting. 416
8. Hodgkinson & Co., Ltd., Manchester. Mechanical and marine stokers and furnaces. 413
9. Hornsby, Richards & Sons, Ltd., Grantham. Engine. 415
10. Johnson, Robert, Bradford. Rotary pump and blower. 419
11. Johnson, S. H., & Co., Stratford. Air compressors, filter pressers, drying machines, etc. 418
12. Joy, David, London. Models of valve gears. 422
13. Mackenzie, H., Somerset, Falmouth.
a Steam engines for vessels, etc. 415
b Pumps. 417
14. Macfarlane, Strang & Co., Ltd., London. Cast iron pipes, valves and hydrants. 422
15. Noble, Brown & Co., Leeds. Portable pumps, shower baths, etc. 417
16. Parkinson's Condensed Gas Company, Stratford.
a Engine. 415
b Pumps. 417

17. Ross & Duncan, Glasgow. Launch engines with valve gear and propellers. 415
18. Smith, Sydney & Sons, Nottingham. Engine and boiler fittings. 422
19. Sterne, L., London. Gas engines. 415
20. Wade, J. Armytage, Hornsea. Pumps and their apparatus. 417
21. Willans & Robinson, Ltd., Thames Ditton, Surrey.
a Engines. 415
b Driving shafting. 416

GROUP 70.

22. Foster, A. & Son, Sheffield. Metal working tools, chases, etc. 430
23. Haslam Fire Extinguishing Company, Bolton. Fire extinguishers and appliances. 429
24. Massey, B. & S., Manchester. Steam hammers, steam stamp, etc. 432
25. Messer & Thorpe, London. Bucket fire extinguisher. 429
26. Noble, Brown & Co., Leeds. Chemical fire engines. 429
27. Square Drilling Machine Company, Ltd., London. Machine for drilling angular shaped holes. 433
28. Wright, Peter, & Sons, Dudley. Anvils, vises, smith's tools, etc. 430

GROUP 72.

29. Brindle, Reade & Taylor, Failsworth, Spinning frame, clip, shuttle guard, fans, etc. 435
30. Cameron-Maclachlan, Dugald, Oban, Scotland. Hand loom and spinning wheel. 436
31. Crippin & Young, Manchester. Dyeing of rovings and cops. 435

GREAT BRITAIN.

32. Grant, W H., & Co., Coventry. Silk weaving loom in motion, small machines. 443
33. National Machine Syndicate, London. Machines for marking, measuring and blocking fabrics. 442
34. Platt Bros. & Co., Ltd., Oldham. Cotton cleaning, carding and combing machinery. 435
35. Roberts, Royle & Co., Manchester. Light power loom. 442
36. Stevens, Thomas, Coventry. Figure loom 443
37. Wilkinson, Thomas, Coventry.
a Loom for silk fabrics. 434
b Loom for cotton fabrics. 435
- GROUP 73.**
38. Shaws, Ltd., Manchester. Brush boring machines and materials. 449

GROUP 74.

39. Byers, Joseph J., & Co., London. Printing machine, printing on pergamoid articles. 450
40. Caslon, F. W., & Co., London. Specimen books of printing types. 467
41. Hilder, Chas. F., London. Type distributing, composing and justifying machines. 455

GROUP 75.

42. Cytlindine Manifold Copying Machine Company, Leicester. machine. Zinco-lithographic machine. 469

GROUP 77.

43. Allin, S. Sealy, London. Automatic refreshment stall.
44. Baker, Joseph, & Sons, London. Biscuit making plant. 486
45. Crees & Co., Devizes. Dish washing machines.

46. Davies Bros. & Co., Ltd., Wolverhampton. Galvanizing machinery, samples of manufacture. 486
47. Francis & Co., Ltd., London. Cement testing machine. 486
48. Hudson, C. & J. S., Stockton-on-Tees. Wall paper trimming and pasting machine, label pasting machine. 486
49. Johnston, Jas., & Co., Manchester. Oven and dough kneading and mixing machines. 486
50. Moncrieff, John, Perth, Scotland. Gauge glasses. 489
51. Phillips, Theo., Middlesborough. Lubricating bags for rollneck and engine bearings. 489
52. Waterforce Laundry Machine Company, London. Washing machines. 484
53. Werner & Pfleiderer, London. Kneading, mixing and baking machines. 486

GROUP 78.

54. Briggs, John, Clitheroe. Models of kiln. 492
55. Fawcett, Thos. C., Leeds. Brick and tile machines. 492
56. Hornsby, Richard, & Sons, Ltd., Grantham. Rock drilling machine. 491
57. Knowles, Henry, London. Models of kilns and ovens. 492
58. Royle, Joseph, & Co., Birmingham. Sand blast machines. 491
59. Tilghman's Patent Sand Blast Company, Ltd., Sheffield. Sand blast apparatus. 491

GROUP 79.

60. Baker, Joseph, & Sons, London.
a Confectioners' machines. 495
b Tea and coffee extractors, urns, etc. 497
61. Davies & Sneade, Liverpool. Millstones. 494

ITALY.

GROUP 69.

1. Casarotti Bros., Padua. Water pumping machines. 417
2. Castel-Delfino, Marquis Mario, Rome. Boiler 413
3. Scarani, Luigi & Sons, Bologna. Bottling machine. 421
4. Schaffner, H. L., Florence. Model of steam engine. 415

GROUP 70.

5. Bale & Edwards, Milan. Ladders. 427

GROUP 72.

6. Bonelli, G., Rome. Embroidering machines. 443

GROUP 74.

7. Montorfano, Antonio, Genoa. Printing presses. 450

GROUP 76.

8. Belloni, Carlo, Milan. Lithographic work. 479

GROUP 77.

9. Bosi, Luigi, Leghorn. Knitting machines. 486
10. Pastore, Ferdinando, Turin. Machines. 486
11. Pastore, Teresa, Turin. Machines. 486
12. Ranieri, Luigi, Rome. Automatic machine. 486
13. Tancredi, Giuseppe, Naples. Machines. 486

GROUP 78.

14. Boltri Bros., Milan. Forges. 493

GROUP 79.

15. Mercadante, Ferdinando, Lanciano. Mills. 494
16. Rivarra, Antonio, Catania. Paste mill. 494

JAPAN.

GROUP 72.

1. Moichi Hashimoto, Gumma. Shuttles. 434
2. Tsunegoro Takenouchi, Gumma. Shuttles. 434

GROUP 73.

3. Tamekichi Ito, Tokyo. Tools for wood work. 449

GROUP 74.

4. Kokkwasha, Tokyo. Engraved blocks and cutting tools. 457

GROUP 75.

5. Hakuryo Sugawara, Tokyo. Prints. 470

6. Kenzaburo Azuma, Tokyo. Art books. 470

7. Kokkwasha, Tokyo. Prints and printing utensils. 470

8. Mataemon Shibakawa, Osaka. Art book. 469

9. Matashichi Kodama, Tokyo. Albums. 470

10. Sotojiro Nakagawa, Tokyo. Album. 470

GROUP 76.

11. Kazunao Ogawa, Tokyo. Photographic prints. 475

12. Yasuo Yegi, Tokyo. Photographic prints. 475

NORWAY.

GROUP 77.

1. Kjevig, B., Christiania. Washing machines. Dept. H. 484

SWEDEN.

GROUP 69.

1. Degerfors Jernverk, Degerfors. Rolled pipes. 422
2. Jernkontorets Kollektivutställning, Stockholm. Iron fittings. 422
3. Laval, Gustafde, Ångturbinfabrik, Stockholm. Turbine-dynamo machines. 414

GROUP 72.

4. Husgvarna Vapenfabriks Aktiebolag, Jönköping. Worsted working machines. 437

GROUP 73.

5. Bratt, Charles E., Stockholm. Cask making machine. 449

6. Ericsson, O. A., Gothenburg. Lathe for amateurs and watchmakers. 449

GROUP 77.

7. Stevenson, N. Aug., Stockholm. Cock and tubes. 489

GROUP 78.

8. Hassetberg, Per, Gothenburg. Pointing machine. 491

...OUR EXHIBITS...

IN POWER PLANT.

72-inch 3-ply Driving Belt,



In Operation on Westinghouse Dynamo and Atlas Engine.

4-24 inch 2-ply Dynamo Belts,



In Operation on Eddy Generators and Phoenix Engines.

IN ELECTRICITY BUILDING, FIRST FLOOR, SECTION F, SPACE 6.



JEWELL BELTING CO.

HARTFORD, CONN., U. S. A.

CHICAGO.

MILWAUKEE.

CINCINNATI.

NEW YORK.



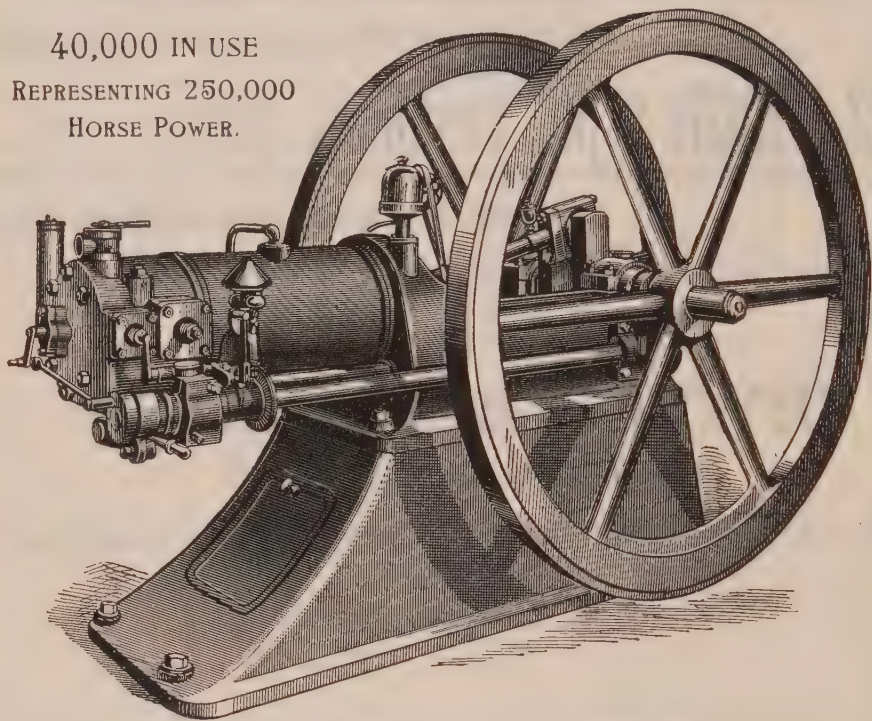
"OTTO"



GAS, GASOLINE
AND PETROLEUM

ENGINES

40,000 IN USE
REPRESENTING 250,000
HORSE POWER.



For use in Cities, Towns or
Country at

Considerable Saving Over Steam

Built on Scientific Principles, with a view to HIGHEST EFFICIENCY.

SIMPLICITY

WHERE IT CAN BE COMBINED
WITH GOOD WORKING.

SIZES:

STATIONARY—1 to 120 Horse Power.
PORTABLES—8 to 20 Horse Power.

EXHIBITS

Machinery Hall—American Dept., H 31.
" " German Dept., K 18-19.
Agr'l Building—American Dept., 32 outside.

Patent Self Starters,

Automatic or Timed Tube Ignition,

Electric Ignition,

Engines with Auxiliary Exhaust,
etc., etc.

"OTTO" GAS ENGINE WORKS, 33d and Walnut Streets,
PHILADELPHIA, PA.

OFFICES:

NEW YORK, 18 Vessey Street.
PITTSBURGH, 421 Wood Street.
OMAHA, 107 S. 14th Street.

BOSTON, 19 Pearl Street.
INDIANAPOLIS, 31 S. Penna Ave.
CHICAGO, 245 Lake Street.

...ORGANIZED 1869...

London Guarantee and Accident Company (Limited)

OF LONDON, ENGLAND.

UNITED STATES BRANCH:

MANHATTAN BLDG., 307-321 DEARBORN ST., CHICAGO.

Trustees for the United States:

J. GROSBY BROWN, Esq., Messrs. Brown Bros & Co., Bankers, New York.
J. W. DOANE, Esq., President Merchants Loan & Trust Co. Bank, Chicago.
GEO. H. WHEELER, Esq., President Chicago City Railway Co.
ERSKINE M. PHELPS, Esq., Messrs. Phelps, Dodge & Palmer Co., Vice-Pres. Chicago City R'y Co.
HON. OLIVER AMES, Ex-Governor of Massachusetts.

A. C. EDWARDS, Gen'l Manager.

C. E. WAITE, Asst. Gen'l Manager.

FINANCIAL STATEMENT.

Authorized Capital,	-	-	-	-	\$1,250,000
Subscribed Capital,	-	-	-	-	750,000
Paid-up Capital,	-	-	-	-	375,000
Assets (January 1, 1893),	-	-	-	-	1,089,219
Surplus above Capital and all Liabilities,	-	-	-	-	487,455
Surplus to Policy-holders,	-	-	-	-	862,455

Deposited with the Insurance Department of the State of New York for the protection of United States policy-holders.

U. S. Four per cent. Bonds, \$200,000.

(Market Value, \$230,000.)

In addition to the deposit above, there will be held by the above Trustees funds adequate to reinsure the full liabilities of the Company in the United States.

The Company will transact the following lines of Insurance in the United States:

Guarantee of Fidelity, Employers' Liability including Outside Liability, Teams and Elevators, Individual Accident and Workmen's Collective.

GUARANTEE.—The bonds of this Company are accepted by the government of Great Britain, the city of London, the Canadian government, the Australian government and banks, railways, etc., everywhere.

EMPLOYERS' LIABILITY.—Assuming the legal liabilities of employers for injury to their employes by accident.

ELEVATOR INSURANCE.—The legal liability of owners or tenants of buildings for damages on account of injuries through accident sustained by any person or persons, through the operation of their elevators, is assumed by this Company.

GENERAL LIABILITY.—Under this form of insurance the proprietors of hotels, apartment houses, office buildings, theatres, and wholesale and retail warehouses are protected. The Company assumes the entire legal liability of the assured both to employes and the public on account of injuries sustained through the operations of the business in or about the premises, and also through the operation of elevators and the employment of teams, the property of the proprietors.

ACCIDENT.—Policies will be issued on individuals providing indemnity in the event of fatal or non-fatal injuries resulting from accident.

WORKMEN'S COLLECTIVE POLICIES will also be written covering workmen and employes generally against accident, providing indemnity, either in the event of death or disability, in proportion to wages and quite irrespective of the liability of the employer.

The London Guarantee and Accident Company (Limited)

Is one of the oldest companies in the world doing the above lines of business. In financial strength it is second to none.

All Claims will be adjusted and dealt with at the Head Office of the United States Branch, with fairness, liberality and promptitude.

For information apply to any General or Resident Agent, or to the Head Office in Chicago.

AGENCIES:

New England Department, 31-33 Central St., Boston, Lowell & Seeley, Managers.

Northwestern Department, 13 Washington Ave., North, Minneapolis, Fred. L. Gray, General Agent, W A Barnes & Co., Resident Managers.

Pacific Coast Department, 312 Pine St., San Francisco, Voss, Conrad & Co., General Agents.

New York and Northern New Jersey, 54 William St., New York, Hall & Henshaw, Resident Managers, Geo. C. Preston, Asst. Manager.

Pennsylvania, Southern New Jersey, Maryland, Delaware, District of Columbia, Platt & Hooven, Resident Managers, 400 Walnut St., Philadelphia.

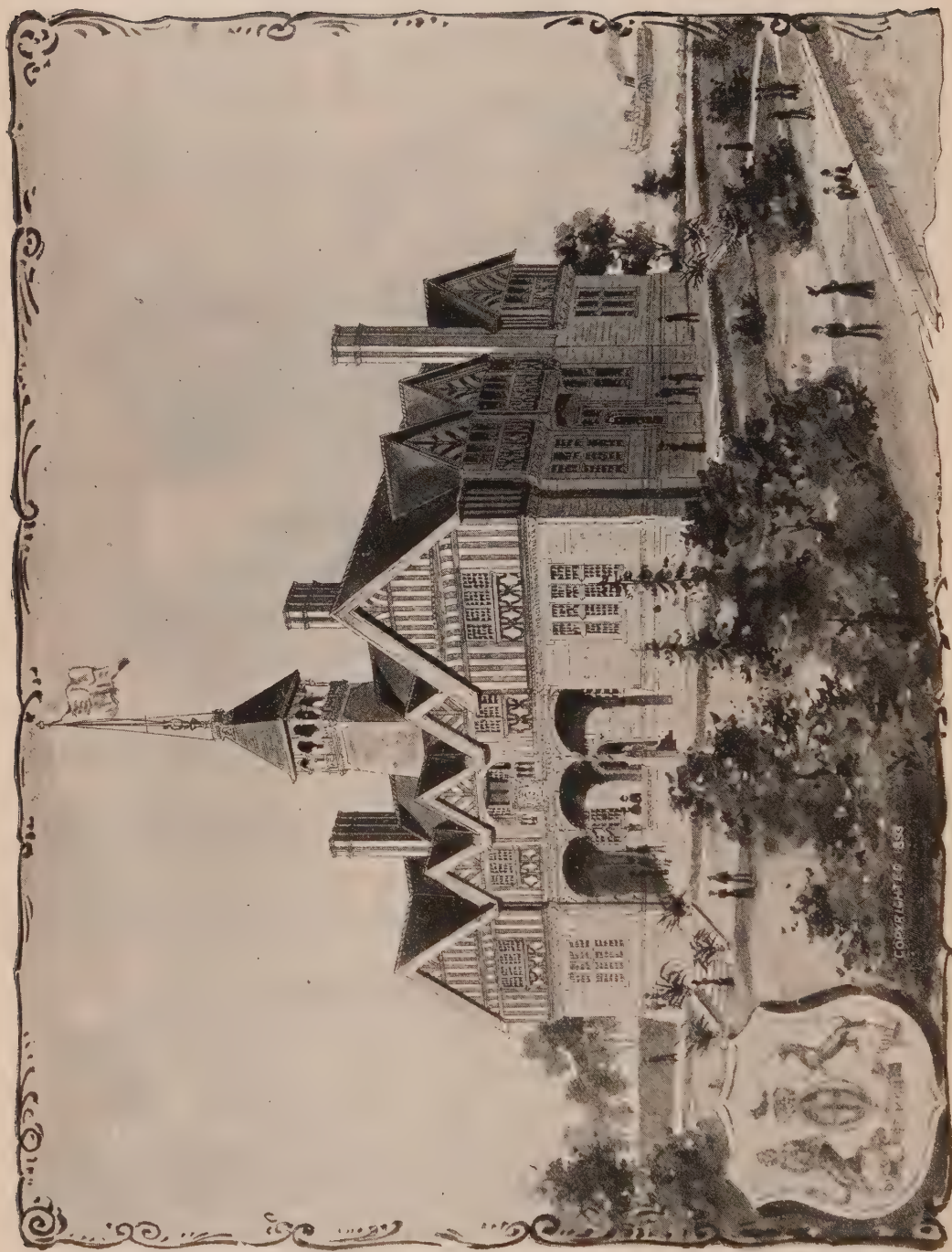
Western Tennessee, 317 Union St., Nashville, James Taylor, General Agent.

Eastern Tennessee and Alabama, Chattanooga, Tenn., Cogswell & Tomlinson, General Agents.

Texas, 7-8 Kampmann Building, San Antonio, Florian, Beall & Eichlitz, General Agents.

Colorado, Emmet Block, Leadville, T. F. Daly, Gen'l Agt.

Georgia and Florida, 102½ Bay St., Savannah, Georgia, John Sullivan & Co., General Agents.
Southern Wisconsin, Edw. Y. Gibson, General Agent, 406 Montgomery Bldg., Milwaukee, Wis.



"VICTORIA HOUSE," GREAT BRITAIN.

G. HOTTINGER, PRESIDENT.
H. ROHKAM, VICE-PRESIDENT.

J. R. TRUE, TREASURER.
FRITZ WAGNER, SECRETARY.

THE NORTHWESTERN TERRA COTTA CO.

Manufacturers of

Architectural Terra Cotta in all Colors.

WORKS AND MAIN OFFICE:

Cor. Clybourn and Wrightwood Aves.

CITY OFFICE:

Room 1118, Rookery Building.

CHICAGO, ILL.

We respectfully call attention to the following list of some of the prominent buildings for which we have manufactured the Terra Cotta Trimmings:



Schiller building, Randolph St., between Clark and Dearborn Sts.
The Rookery building, corner Adams and La Salle Sts.
The Women's Temple building, corner Monroe and La Salle Sts.
Chamber of Commerce building, corner Washington and La Salle Sts.
Tentonic building, corner Washington St. and Fifth Ave.
Masonic Temple building, corner Randolph and State Sts.
Columbus building, corner State and Washington Sts.
Marshall Field & Co.'s building, corner Wabash Ave. and Washington St.
The Isabella building, Van Buren, near State St.
The British building, at World's Fair Grounds, Jackson Park.
The Pabst Brewing Co.'s Exhibit, in Agricultural Building, Jackson Park.
The Old Colony building, southeast corner Dearborn and Van Buren Sts.
The Wachusette building, southwest corner Dearborn and Van Buren Sts.
The Kathadin building, southwest corner Dearborn and Van Buren Sts.

The Great Northern Hotel building, corner Dearborn, Quincy and Jackson Sts.
The Security building, Fifth Ave. and Madison St.
The Abstract building, on Washington, near Clark St.
The Chicago Herald building, on Washington, near La Salle St.
The Hartford building, corner Dearborn and Madison Sts.
The Tacoma office building, corner Madison and La Salle Sts.
The Pabst office building, Milwaukee, Wis.
Matthews Bros.' building, Milwaukee, Wis.
Wisconsin Telephone Co.'s building, Milwaukee, Wis.
The Equitable building, Denver, Col.
The Metropolitan Hotel building, Denver, Col.
The Flour Exchange building, Minneapolis, Minn.
Temple Court building, Minneapolis, Minn.
Pioneer Press building, St. Paul, Minn.



German-American Bank building, St. Paul, Minn.
Endicott office building, St. Paul, Minn.
New York Life Insurance Co.'s building, St. Paul, Minn.
Omaha Bee building, Omaha, Neb.
Paxton building, Omaha, Neb.
Adams Express Co.'s building, Omaha, Neb.
Mather building, Cleveland, Ohio.
Neaves building, Cincinnati, Ohio.
Methodist Book Concern building, Cincinnati, Ohio.
Kaufman-Straus building, Louisville, Ky.
Commercial Club office building, Louisville, Ky.
Chamber of Commerce, Kansas City, Mo.
Midland Hotel, Kansas City, Mo.
Mallinckrodt's building, St. Louis, Mo.

Mercantile Library building, St. Louis, Mo.
Meyer Bros. Drug Co.'s building, St. Louis, Mo.
Liggett & Meyer's building, St. Louis, Mo.
United States Post Office and Custom House, Galveston, Texas.
Dubuque County Court House, Dubuque, Iowa.
Union League Club building, Brooklyn, N. Y.
Wichster Bros.' building, Brooklyn, N. Y.
National Union building, Toledo, Ohio.
Shepherd & Sons Co.'s building, Wilkesbarre, Pa.
Fourteenth Ward School building, Pittsburg, Pa.
North Public School building, Pittsburg, Pa.
Equitable Life Insurance Co.'s building, Atlanta, Ga.
Tulane University building, New Orleans, La.
Morris building, New Orleans, La.

AND MANY OTHERS.

...Largest Jobbing Brass Foundry in the World...

J. J. RYAN & CO.

Brass Founders and Finishers, Brass Patterns, Models, Polishing and Plating.

ALUMINUM CASTINGS A SPECIALTY.

NUMBER OF FURNACES, 32.
NUMBER OF MOLDERS, 40.
FLOOR SPACE, 20,000 SQ. FT.
DAILY CAPACITY, 10,000 LBS.
WE NEVER USE SCRAP.



68 TO 74 W. MONROE ST.,
CHICAGO.

TELEPHONE MAIN 1224.

BABBITT METALS OF SUPERIOR QUALITY.

A. ROLLER

MACHINE
WORKS



SOLE SPECIALTY SINCE ESTABLISHMENT IN 1858.

MATCH AND MATCH BOX MACHINERY

CABLE ADDRESS:
PHOSPHOROS, BERLIN.

BERLIN, N. 20,
GERMANY.

WORLD'S COLUMBIAN EXPOSITION,
MACHINERY HALL, LEFT HAND SIDE OF MAIN ENTRANCE.

CORRESPONDENCE
SOLICITED.

ASBESTOS

GOODS

LOUIS WERTHEIM

SOLE AGENT
FOR THE
United States and Canada

ED. WERTHEIM

403 AND 404 OMAHA
BUILDING,
CHICAGO, ILL.

FRANKFORT A.M.

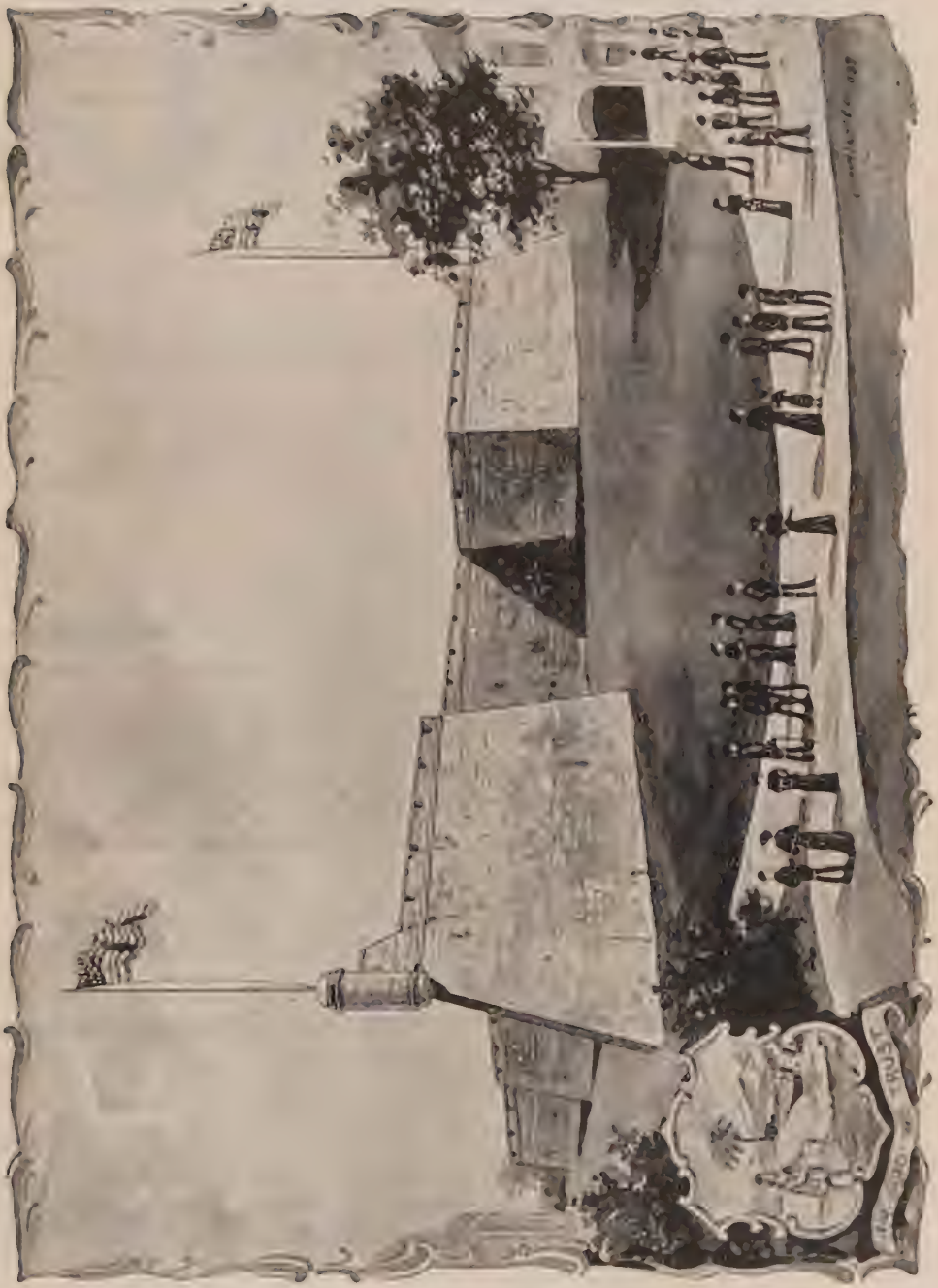
ENGINE

PACKING

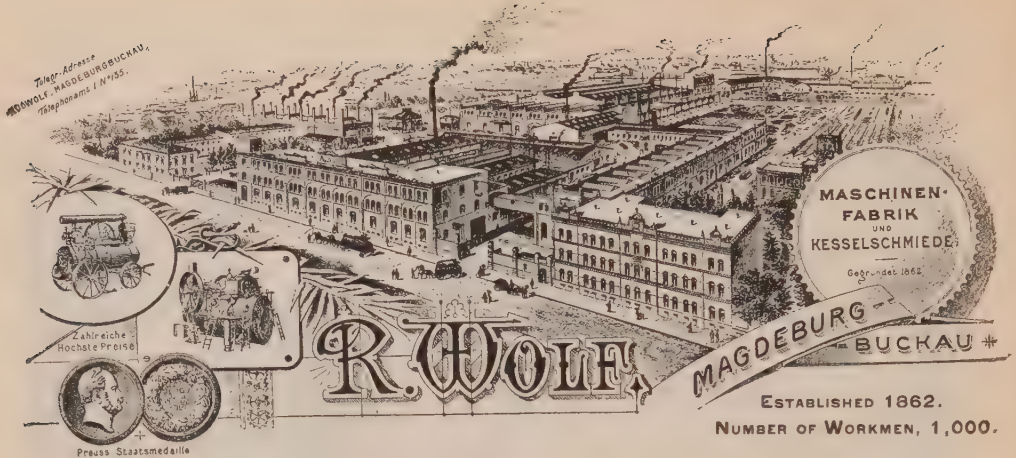
PHILADELPHIA 1876

SYDNEY 1879

1st PRIZE



FLORIDA STATE BUILDING.



Most Important **ENGINEERING WORKS** in Germany

For SEMI-PORTABLE and PORTABLE ENGINES.



REARLY 4,000 Semi-Portable and Portable Engines with boilers whose tubular system can be withdrawn have been produced in **WOLF'S ENGINEERING WORKS**. The production in 1890-91 amounted to 748 engines of 15,547 horse-power. They are highly appreciated in all parts of the world, and even the oldest of them, made more than thirty years ago, are still doing their duty. Authentic proof can be given, that 20, 30, 40 and more repeat-orders were entrusted to R. Wolf by quite a number of authorities and large firms. Their exceptional working capacity and their unexcelled economy in the consumption of fuel have been certified by hundreds of testimonials from experts and scientific authorities.

These engines must not be confounded with the ordinary light built, cheap products of other works. The construction of Wolf's engines differs from them in many essential points, and their workmanship is of such high class description, that they excel even first-class stationary engines with regard to the amount of fuel consumed per horse-power. They have the additional advantages of requiring much less room, being quicker erected and easier tended. They are therefore the most rational motors for all kinds of industrial and agricultural installations, and may be found driving Brick Works, Breweries, Boring Installations, Cement Works, Distilleries, Engineering Works, Electric Illumination Plants, Foundries, Flour Mills, Gun Factories, Hauling Gear, Mortar Works, Ore Crushers, Printing Works, Pumping Works, Saw Mills, Stone Breakers, Spinning Mills, Steam Dairies, Threshing Machines, Weaving Mills, Wire Rope Tramways, etc., etc.

TIMELY HINTS TO MANUFACTURERS.

THE evils attending the presence of Incrustation and Corrosion in the Steam-Boiler are well known by all practical engineers. That these maladies greatly diminish the life and utility of the boiler, and greatly augment its cost of operation, is conceded by all competent observers. We venture the assertion that no subject connected with steam engineering has offered a more extensive field for the development of inventive genius, than the protection of the boiler from the accumulation of scale and the corrosive influence of feed-waters. All who have prosecuted this subject with studious application, research and experimental labor, unanimously agree that immunity from these agencies can only be acquired by the adoption and use of chemical means; innumerable tests of mechanical contrivances "under the most favorable conditions," demonstrating that their efficacy at best but compared them favorably with the surface blow-off. The demand for an effectual preventive of Incrustation and Corrosion is so general that the market is flooded with numberless nostrums, each advertising their articles "superior" in the superlative degree, and further, to be the latest "**Innovation and Discovery in Chemistry.**" An analysis of these preparations determines their composition to be generally admixtures of caustic alkalies or acids, each predominating, according to the ideas of the manufacturer. This class of "Specifics" finds a ready sale among the careless fraternity of engineers, whose plants offer every evidence of a general lack of attention and care. Among the more cautious and enterprising engineers, these nostrums are seldom used, as periodical examinations of the internal surfaces of the boiler soon reveal the objectional feature of these articles and lead to their abandonment. Among the very few good articles widely known and extensively used among engineers, we believe "**LORD'S BOILER COMPOUND**" is the most conspicuous.

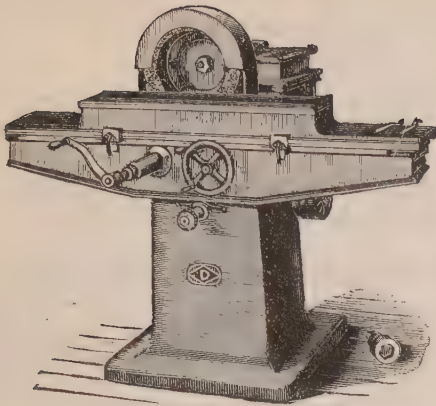
This chemical compound is manufactured by Mr. G. W. Lord, 316 Union St., Philadelphia, Pa., and is generally used among the engineers of this Association; this fact best bespeaks our appreciation of its merit. During an interval of thirty years, Lord's Compound has received favorable recognition and mention in our best Treatises on Mechanics, its use and merit being attested by some thirty eminent and popular authors, among them the following: "The Steam Engine and Indicator," by W. Barnet Le Van of the Franklin Institute; "The American Engineer," Edwards; "The English and American Mechanic," Van Cleave; "The Engineer's Handy Book," Roper; "The Use and Abuse of the Steam Boiler," Roper; "Twenty Years with the Indicator," Pray, and numerous others. All these are authors of reputation.

As a guarantee that the foregoing statement is correct, we understand that the manufacturer will, upon request, accompanied by an order for the Compound, mail any one of these books, costing from \$1.00 to \$10.00, and also a valuable pamphlet, free of charge. This is an unbounded test of merit.

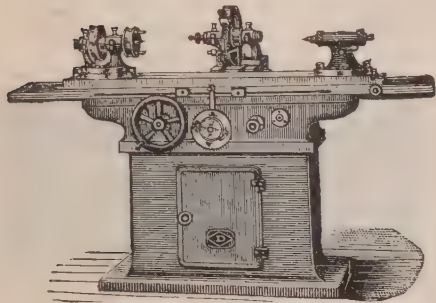
Lord's Compound is in exclusive use by the United States Government, and we believe is the only "American Preventive" used by Foreign Governments and Navies. That it enjoys a larger sale than any competitive article in use throughout this continent, we feel sure all engineers will willingly admit. Mr. Lord compounds all his preparations with a view to special adaptation to the individual case, after having made an analysis of the water submitted. His long experience with chemical re-agents and the treatment of waters should, we think, prove productive of the most satisfactory skill and sanguine expectation; and we heartily recommend his Compound to our fellow engineers. We would say that the words **LORD'S BOILER COMPOUND** are but the trade-mark identifying Mr. Lord's Compound, and do not signify his manufacture or recommendation of any individual chemical preparation. We ask our friends to correspond with him relative to his compounds, and we feel confident that his terms of sale are so satisfactory as to warrant your granting what we consider "The Best on Earth" a trial.—From "*Steam Manual*," official publication of the *National Association of Stationary Engineers of U. S. A.*



MISSOURI STATE BUILDING.

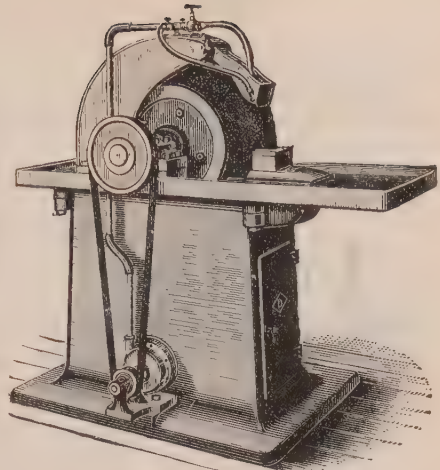


FACE GRINDING MACHINE.



NO. 3 UNIVERSAL GRINDER.

COMPLETE CATALOGUE FURNISHED
ON APPLICATION.



30 INCH WATER TOOL GRINDER.

DIAMOND MACHINE CO.

GRINDING AND POLISHING MACHINES
FOR ALL CLASSES OF METALS.

LEVER AND SCREWS FEED LATHES.

WESTERN OFFICE, 35-37 S. CANAL ST.,
CHICAGO, ILL.

FACTORY, PROVIDENCE, R. I., U. S. A.

See our latest improved **STEAM DRAWPLATE OVENS** and **MAGHINES AT WORK**

WERNER & PFLEIDERER,

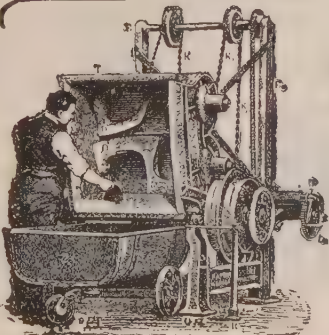
Engineers and Patentees.

CANNSTATT (Wurttemberg), BERLIN, PARIS, VIENNA, LONDON.

WE LEAD WITH OUR "UNIVERSAL" ♦ ♦
KNEADING AND MIXING MACHINES, PRESSES, DOUGH BRAKES, ETC.

FOR

KNEADING MIXING SIFTING BLENDING INCORPORATING
AMALGAMATING MASTICATING MALAXATING



"UNIVERSAL" KNEADING AND MIXING
MACHINE WITH TROUGH TILTED.

ALL KINDS OF MATERIALS, VIZ:

Dough, Biscuits, Conserves, Sausages, Cement, Carbons
for Arc Lights, all Chemical & Pharmaceutical Products.

♦ ♦ ♦
COMPLETE INSTALLATIONS FOR

Bakery and Confectionery, Macaroni, Vermicelli,
Putty, Gutta Percha, Linoleum,
Smokeless Powder, Dynamite, etc., etc., Works.

...CATALOGUES FREE...

FROM OUR DIFFERENT HOUSES AND OUR

Exhibition Stands P. 13, Machinery Hall.

THE BEST IN THE MARKET.

57 AWARDS, Highest only wherever exhibited! Patented in all countries.

on Fair Grounds at Pavilion of French Bakery Exhibit.



W. S. EDWARDS MFG. CO.

DESIGNERS
AND MAKERS OF

GAS AND ELECTRIC LIGHT
❖❖❖ FIXTURES ❖❖❖

21 EAST LAKE STREET,
NEAR WABASH AVE.

TELEPHONE MAIN 329.

CHICAGO.



RICE & WHITACRE MFG. CO.

"THE KRIEBEL" STEAM ENGINES.




STATIONARY MARINE & HOISTING
ENGINES WITH VERTICAL OR HORIZONTAL
STEEL BOILERS. SEND FOR CATALOGUE
RICE & WHITACRE MFG. CO. CHICAGO.

"THE TRIUMPH" BOILERS

BEST & CHEAPEST

SMALL SIZED STEAM HEATER
HOT WATER HEATERS AND STEAM
GENERATORS. SEND FOR CATALOGUE
RICE & WHITACRE MFG. CO. CHICAGO.

47 SOUTH CANAL ST., CHICAGO, ILL.



JOSEPH BAKER & SONS,
ENGINEERS AND PATENTEES.

Eighteen Gold Medals. Highest Awards at
World's Great Exhibitions.

SPECIALTIES.—Bread and Cake Making Machinery,
Patent Continuous Baking Ovens, Biscuit and Cracker
Making Machinery, with Mechanical Traveling, Rotary
and Reel Ovens.

Confectionery, Lozenge, Chocolate, Macaroni and Fruit
Preserving Machinery, Grocers' Machines, Patent Fruit
Cleaners, etc

PATENT OIL AND GAS ENGINES.

WORKING PLANTS IN WORLD'S FAIR, CHICAGO:

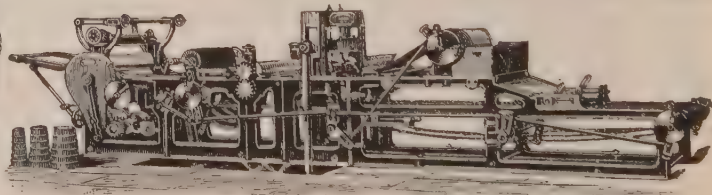
CONFECTIONERY MACHINES AND WORKING MODELS,

N. E. CORNER MACHINERY HALL.

BREAD, CONFECTIONERY AND LOZENGE PLANT,

SUPPLYING ALL WORLD'S FAIR RESTAURANTS,

BAKERY AND KITCHEN BUILDING S. W. COR. GROUNDS.



BISCUIT CUTTING AND PANNING MACHINE.

OFFICES:

58 City Road, LONDON, E. C.

WORKS:

Willesden Junction, LONDON, Eng.

BRANCHES:


Melbourne, Australia.

Dunedin, N. Z.

Rio de Janeiro, Brazil.

FRIED. KRUPP GRUSONWERK

MAGDEBURG-BUCKAU, GERMANY.

IRON FOUNDRY,
STEEL FOUNDRY,
ENGINEERING WORKS. 

97 HONOURS AND AWARDS
HAVE BEEN GRANTED
TO THE SPECIALTIES OF THE
GRUSONWERK.

*The Works comprise 65 Steam Engines, representing in all 1,864 H. P., 1,100 Machine Tools,
10 Steam Hammers (with a maximum hammer weight of 180 Cwt.), 14 Cupola Furnaces, 29 Crucible
Furnaces. Daily production, 4,500 Cwt. of Castings.*

PRINCIPAL SPECIALTIES.

WAR MATERIAL.

AMMUNITION. Projectiles of every construction and every calibre, such as Common Cast-iron Shell and Ring Shell, Common Steel and Armour Piercing Shell, Bursting Shell, Chilled Cast-iron Shell. Cast-iron Shrapnels, Steel Chamber Shrapnels, Case Shot, Cartridge Cases, Finished Cartridges for quick-fire guns, Shell and Shrapnel Fuses, Cartridges with black and smokeless powder.

GUNS and HOWITZERS. Quick-fire Guns and Howitzers with Gruson's wedge-breech mechanism for field, mountain, fortress, siege, coast and marine artillery. Guns and Howitzers with screw-breech mechanism.

MORTARS. Field Mortars, Ball Mortars of Chilled Cast-iron. Mountings, Limbers and Ammunition Wagons, Field Carriages for Guns, Howitzers and Mortars. Mountain Carriages and Dismountable Carriages for colonial use. Carriages for Siege and Fortress Guns, Ship Mountings, Minimum Embrasure Carriages of various systems.

SHIELDED MOUNTINGS, Armour Turrets and Observation Stands Movable, Disappearing and Common Shielded Mountings (Schumann's system). Armour of Gruson's patented Construction of chilled cast-iron, steel, wrought-iron and compound metal, such as armour stands for Mortars, movable, disappearing and common armoured Observatories, Parapets, Gun Stands, open and covered Batteries, Half Turrets, Revolving Turrets, complete Armoured Fortifications and Armoured Forts.

* * * * *

MACHINERY for the manufacture of Blasting, Rifle and all sorts of Military Powder.

SPECIAL MACHINES and APPARATUS for the manufacture of Smokeless Powder.

COMPLETE INSTALLATIONS for Powder Factories.

COMPLETE PLANTS for the manufacture of Gun Cotton.

PRODUCTS OF THE CIVIL BRANCH.

PLANT FOR DRESSING ORES. Special Apparatus for Slick Dressing, especially Concentration Plant for fine ores and slimes by the system of Oberberggrath Bilharz in Freiberg (Saxony). Gold Mining Machinery (László Patent Amalgamators). Plant for Silver Extraction by the Francke Amalgamation System. Plant for Copper Extraction direct from the ore by the Siemens Electrolytic Process.

CRUSHING MACHINERY of every description. Ball Mills with automatic feed and discharge (Grusonwerk Patent), Excelsior Bruising Mills, Stone Breakers, Roller Mills, Edge Runners, Cone Mills, Disintegrators, Horizontal Runners, etc. Automatic Separating and Mixing Machines (Jochum's system). **COMPLETE PLANTS for Cement, Fire Clay, Emery and Manure Works; also for Plaster of Paris, Trass, Sulphate of Baryta, Bone and Oil Mills.**

HYDRAULIC PRESSES, such as Oil, Wheel, Gun-barrel Presses, Presses for making Lead Tubes and Lead Wire.

HYDRAULIC CABLE PRESSES (Huber's system), etc.

HOISTS AND PLANTS OF CRANES for steam and hydraulic power. Hydraulic Capstans and Windlasses.

CANAL LIFTS of special construction.

GAS ENGINES (Sombart's Patent).

COFFEE HULLING, Peeling, Polishing and Cleaning Machines (Anderson's Patent). Sugar-Cane Mills.

MATERIALS for RAILWAYS, Tramways, Mine and Factory Lines.

CHILLED CAST ARTICLES, especially working parts of Crushing Machinery, rough and finished Rolls for flour mills, for rolling all metals, for paper and India rubber manufacture, etc.

STEEL CASTINGS, especially for Engineering Works, Bridge and Ship Building.

OTHER FOUNDRY PRODUCTS of Cast-iron of the best quality, of Malleable Cast-iron, Red Brass and Phosphor Bronze.

Detailed Catalogues in German, French, English and Spanish sent free on application.



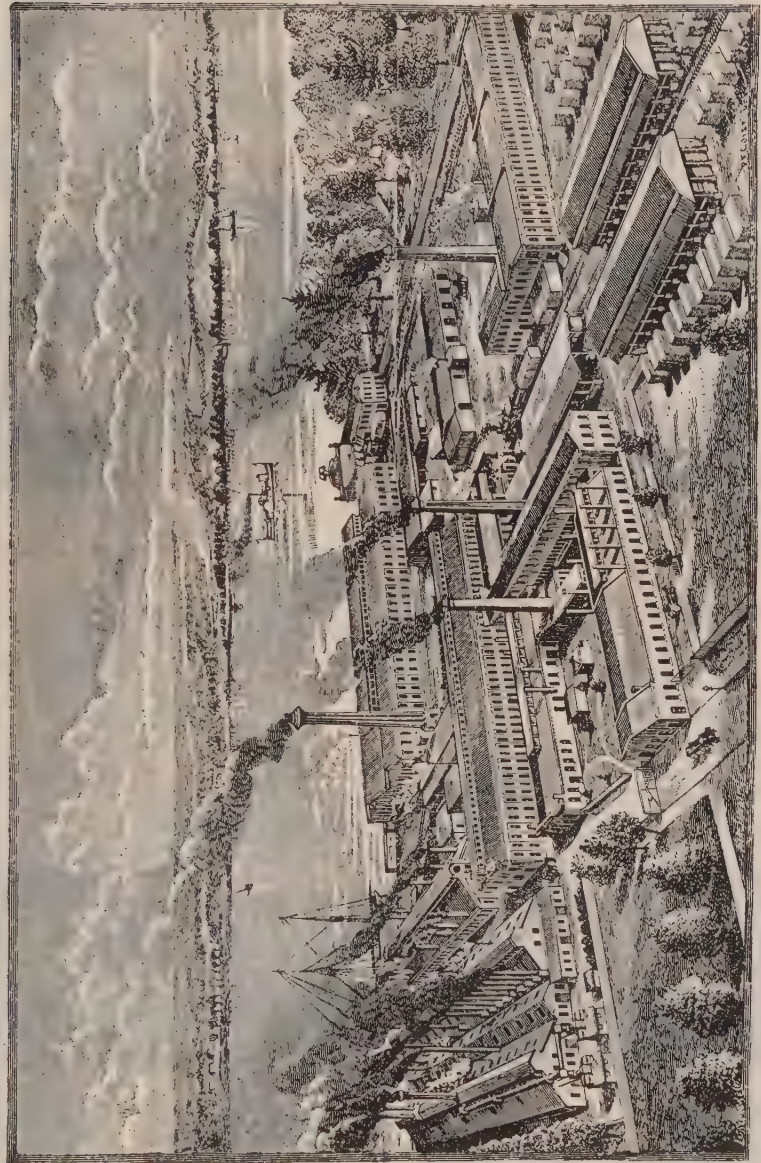
PENNSYLVANIA STATE BUILDING.

HENRY DISSTON & SONS,

(INCORPORATED)

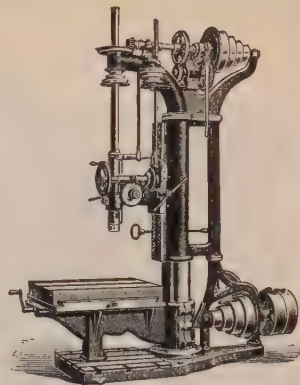
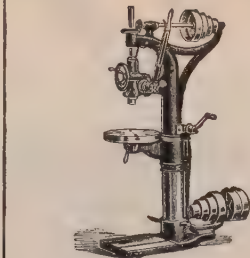
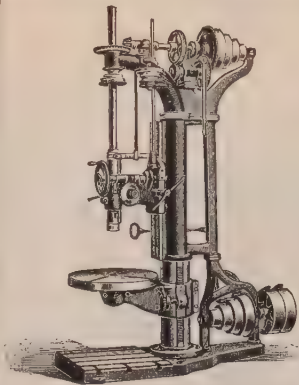
PHILADELPHIA, PA., U. S. A.

BOSTON,
MASS.
SAN FRANCISCO,
CAL.



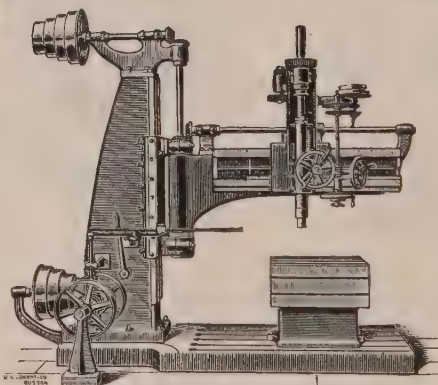
BRANCH HOUSES:
CHICAGO,
ILL.
LOUISVILLE,
KY.

THE LARGEST PRODUCERS OF SAWS IN THE WORLD.



PRENTICE BROS.

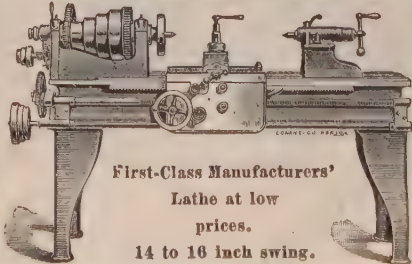
Makers of Vertical
Drill Presses, 12 to
50 inch swing, Radial
Drills, Gang Drills,
Boiler Makers' Drills,
Radial Drilling and
Counter-sinking Ma-
chines, for ship plate
and bridge work,
Special Drilling Ma-
chinery



Engine Lathes, from
12 to 28 inch swing,
any length of bed,
with single or double
back geared heads and
any style of rest, with
or without taper at-
tachment

WORCESTER, MASS, U.S.A.

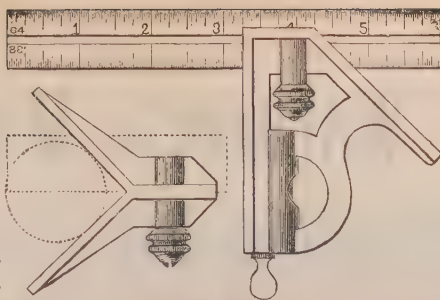
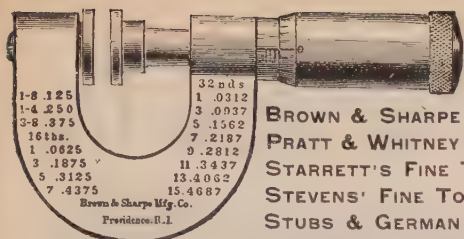
SEND FOR CATALOGUE



First-Class Manufacturers'
Lathe at low
prices.
14 to 16 inch swing.



Standard Tool Room Lathe.
Double Back Geared
Head.
12 to 28 inch swing.



BROWN & SHARPE TOOLS.
PRATT & WHITNEY TOOLS.
STARRETT'S FINE TOOLS.
STEVENS' FINE TOOLS.
STUBS & GERMAN TOOLS.

LIGHTNING & GREEN RIVER PLATES.

KEARNEY & FOOT FILES.

GROBET FILES.

THE MACHINISTS' SUPPLY CO.

DEALERS IN . .

Fine Tools, Machinery and Supplies

FOR MACHINISTS AND MANUFACTURERS.

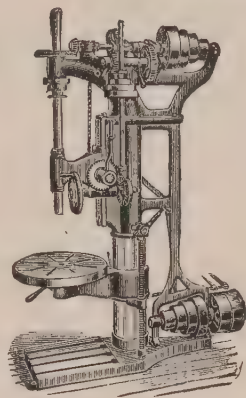
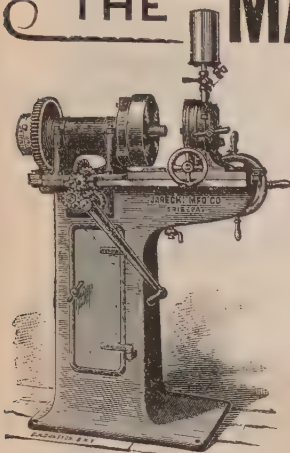
AGENTS FOR . .

SIBLEY & WARE DRILL PRESSES.
JARECKI MFG. CO. PIPE MACHINES.
BARNES, ALSO SEBASTION MAY CO. LATHES.
WALTHAM & CELLULOID EMERY WHEELS.

167 and 169 Lake Street, CHICAGO.

CONVENIENTLY LOCATED, ONE BLOCK FROM THE COURT
HOUSE AND ONLY A FEW MINUTES' WALK FROM
THE LEADING HOTELS.

FRIENDS AND VISITORS ARE COURTEOUSLY INVITED TO
GIVE US A CALL.



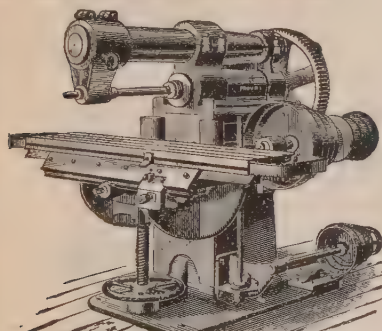
SEE OUR EXHIBIT...

MACHINERY HALL
ANNEX,

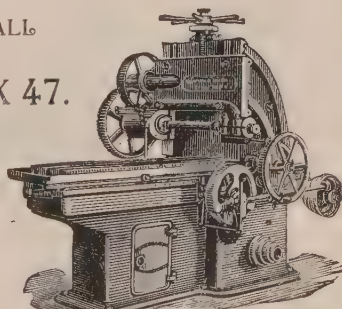
MAIN AISLE K 47.

MAKERS OF

Milling Machines,
Boring Machines,
Engine Lathes,
Patent Safety Drill and
Tap Holders.



HEAVY STANDARD MILLING MACHINE.



HORIZONTAL SPINDLE MILLING MACHINE.

BEAMAN & SMITH,

Providence, R. I., U. S. A.

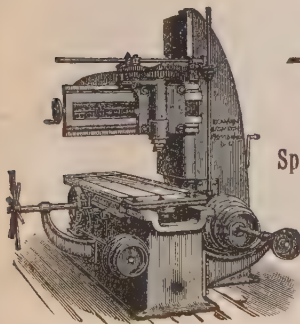
MACHINERY

AND TOOLS.

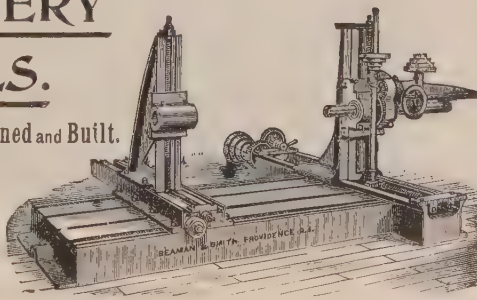
Special Machinery Designed and Built.



Catalogue
Furnished on
Application.



VERTICAL SPINDLE MILLING MACHINE.



NO. 1 HORIZONTAL SPINDLE DRILLING AND BORING MACHINE.

ESTABLISHED 1842.

WALWORTH MANUFACTURING CO.

14 to 24 Oliver St., BOSTON, MASS.

—MANUFACTURERS OF—

TOOLS AND SUPPLIES FOR _____
STEAM FITTERS and ENGINEERS

Brass and Iron Valves,

Cocks and Fittings,

Automatic Fire Extinguishers.

STEEL and IRON POLES

For Electric Lighting and Railways.

MACHINES

For tapping Street Mains under pressure.

ESTABLISHED 1855.

INCORPORATED 1865.

CRANE :: COMPANY

The CRANE COMPANY, exhibiting in the Machinery and
Transportation Buildings, are manufacturers of

WROUGHT - IRON PIPE,
Malleable and Cast-Iron Fittings,
BRASS GOODS,

AIR-BRAKE MATERIAL,
RAILINGS,
HYDRANTS, TOOLS, ETC.

And claim the distinction of being, in their lines, the Largest Manufacturers in the World.

THEY HAVE GENERAL OFFICES IN **CHICAGO**

FACTORIES AND MILLS IN **CHICAGO AND PITTSBURG**

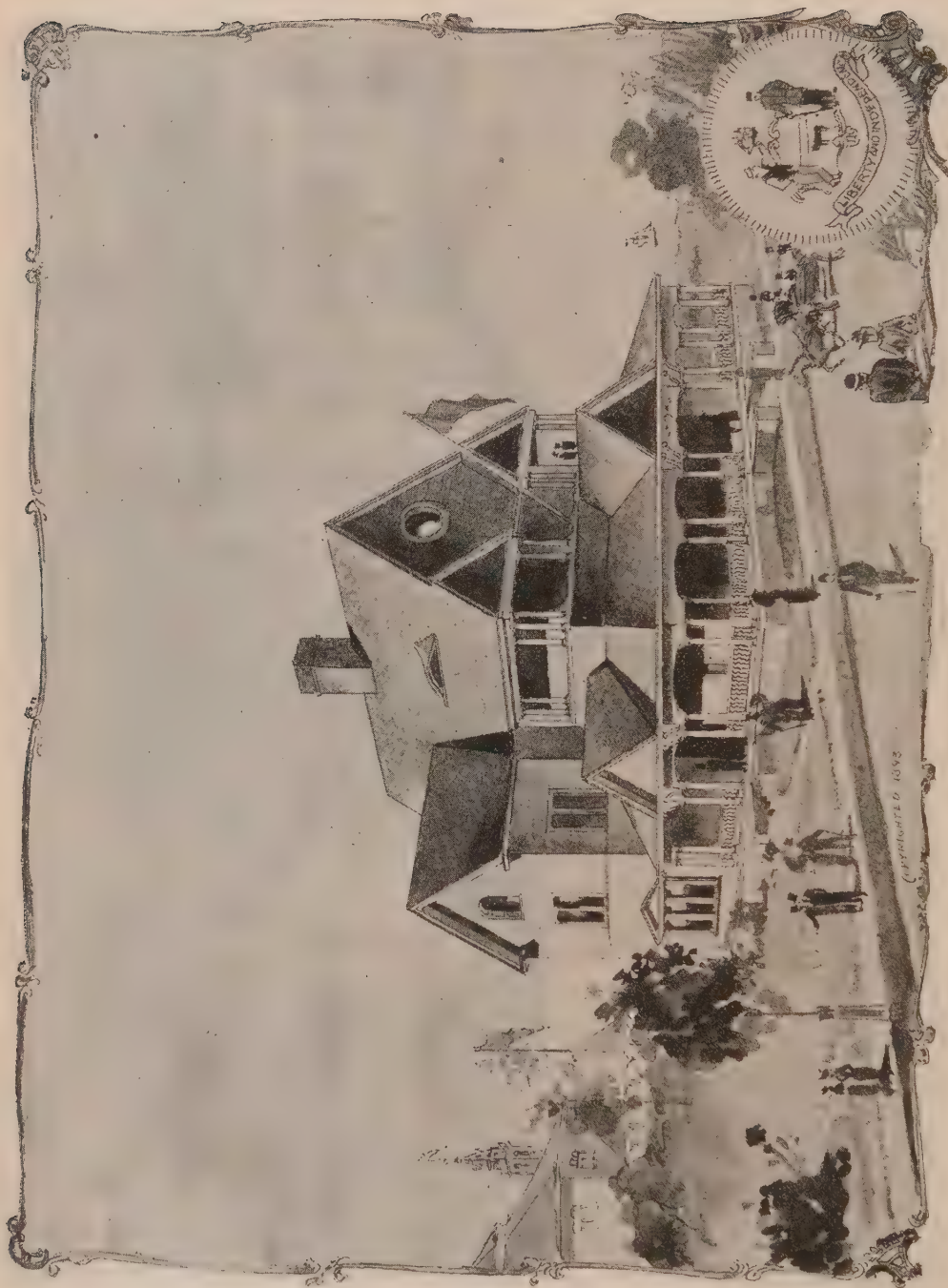
AND BRANCH HOUSES IN

PHILADELPHIA, OMAHA, KANSAS CITY, LOS ANGELES,
SAN FRANCISCO, ST. PAUL, MINNEAPOLIS AND DULUTH.

They have a concession located on the Grounds, south of Machinery Hall, for the sale of all classes of
Iron and Brass Goods, Tools, Etc.

NEW JERSEY STATE HOUSE





DELAWARE STATE BUILDING.

HEINR. EHRLHARDT.

DUESSELDORF, GERMANY.

MACHINE TOOL WORKS.

ZELLA-ST. BLASII, and GUSTAVE EHRLHARDT & SONS,
PITTSBURG, PA.

SPECIALTY: Patent cold sawing machines for the most rational treatment of Iron and Steel.

About 4,000 machines have already been delivered, of all sizes and for different purposes, such as circular, band, fret, armour plate saws, etc.

Manufacturers of cold-saw-blades (Ehrhardt's Patent). More than 100,000 of these blades have been delivered of all sizes, from 2 inches to 7 feet diameter with adjustable teeth for cutting armour plates, etc.

Automatic machines for sharpening saw-blades. Patent turning lathes for turning railroad wheels, having double the capacity of ordinary lathes. Patent testing machines, etc.

I. G. BRAUN & CO., Sole Agents, 379 South Paulina St., CHICAGO.

BAILEY'S FAMOUS Rubber... ...Brushes

C. J. BAILEY & CO.
Patentees and
Maufrs.
22 Borkston St.
Boston,
Mass.

For Sale
by all
dealers
in Toilet
Goods.

Illustrated
Catalogue
Mailed Free.



We
will mail
any of these
goods to any
part of the world
on receipt of price.

Bailey's Rubber

Bath Brush, .	\$1.50
Shampoo Brush, .	.75
Hand Brush, .	.50
Toilet Brush, .	.25
Tooth Brush No. 1, .	.25
Tooth Brush No. 2, .	.35
Ink & Pencil Eraser, .	.25
Pencil Eraser, .	.10
Blackening Dauber, .	.25
Teething Ring, .	.10
Complexion Brush, .	.50
Heel Cushions, pair, .	.25
Soap Dishes, .	.25
Manicure Set, .	.25

NIAGARA STAMPING AND TOOL CO.

MANUFACTURERS OF

Machines and Tools for Sheet Metal Workers

SPECIALTIES :

TINNERS'
ROOFERS'
CAN-MAKERS'

TOOLS.

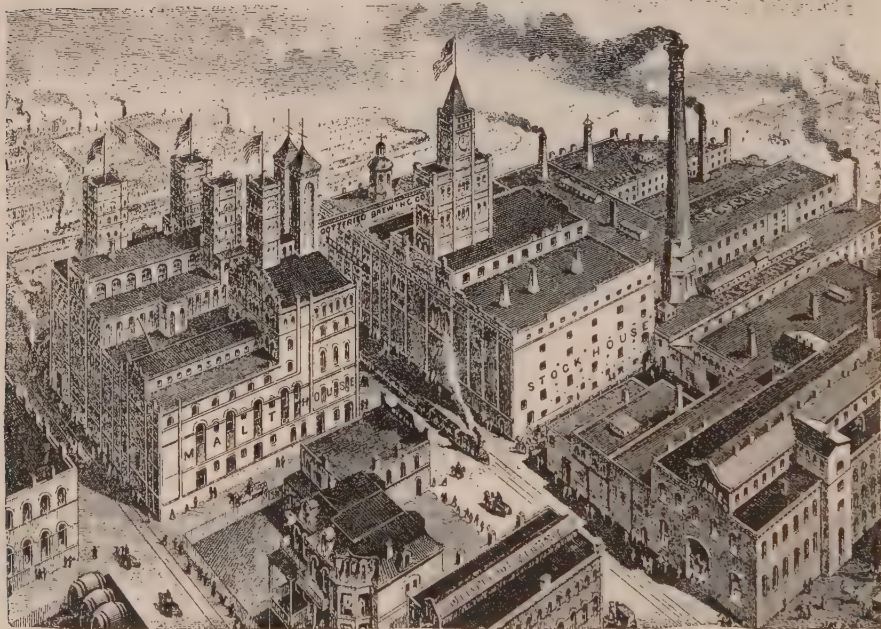
SHEARING MACHINES,
PRESSES AND DIES,
FORMING ROLLS.

SUPERIOR AND RANDALL STREETS, BUFFALO, N. Y.



GOTTFRIED • BREWING • COMPANY

THE LARGEST BREWERY IN ILLINOIS NOT
CONNECTED WITH SYNDICATES.



JOHN H. WEISS, President.

C. M. GOTTFRIED, Secretary.

F. GUNDRUM, Vice-President.

Brewers and Bottlers of the celebrated "GOLDEN DROP" Beer, which is the ideal beverage of all those enjoying a pure, healthy and nourishing drink.

•
—
•
OFFICE AND BREWERY
CORNER ARCHER AND STEWART AVENUES,
CHICAGO.

THE SEMI-CENTENNIAL OF

1843



1893

THE MUTUAL LIFE INSURANCE COMPANY OF NEW YORK

RICHARD A. McCURDY, President

BRINGS PROMINENTLY BEFORE THE PUBLIC
TWO NOVEL FORMS OF LIFE INSURANCE

THE FIVE PER CENT. DEBENTURE AND THE
CONTINUOUS INSTALLMENT POLICY.

These policies combine the great advantages of low cost and long extended protection with fewer restrictions than other forms of insurance.

For details concerning these desirable contracts apply to company's nearest agent or its head office.

BOARD OF TRUSTEES:

Samuel D. Babcock.
Geo. S. Coe.
Richard A. McCurdy.
James C. Holden.
Hermann C. Von Post.
Alexander H. Rice.
Lewis May.
Oliver Harriman.
Henry W. Smith.
Robert Olyphant.
George F. Baker.

Dudley Olcott.
Frederic Cromwell.
Julien T. Davies.
Robert Sewell.
S. Van Rensselaer Cruger.
Chas. R. Henderson.
George Bliss.
Rufus W. Peckham.
J. Hobart Herrick.
Wm. P. Dixon.
Robert A. Granniss.
Henry H. Rogers.

Jno. W. Auchincloss.
Theodore Morford.
William Babcock.
Stuyvesant Fish.
Augustus D. Juilliard.
Charles E. Miller.
Walter R. Gillette.
James E. Granniss.
David C. Robinson.
H. Walter Webb.
George G. Haven.

ROBERT A. GRANNISS, Vice-President.
WALTER R. GILLETTE, General Manager. ISAAC F. LLOYD, 2d Vice-Pres.
WILLIAM J. EASTON, Secretary.
EMORY McCLINTOCK, Actuary. A. N. WATERHOUSE, Auditor.
FREDERIC CROMWELL, Treasurer.

WITH ASSETS OVER \$177,000,000.00 IT IS

The Largest Life Insurance Company in the World.

HEAD OFFICES:

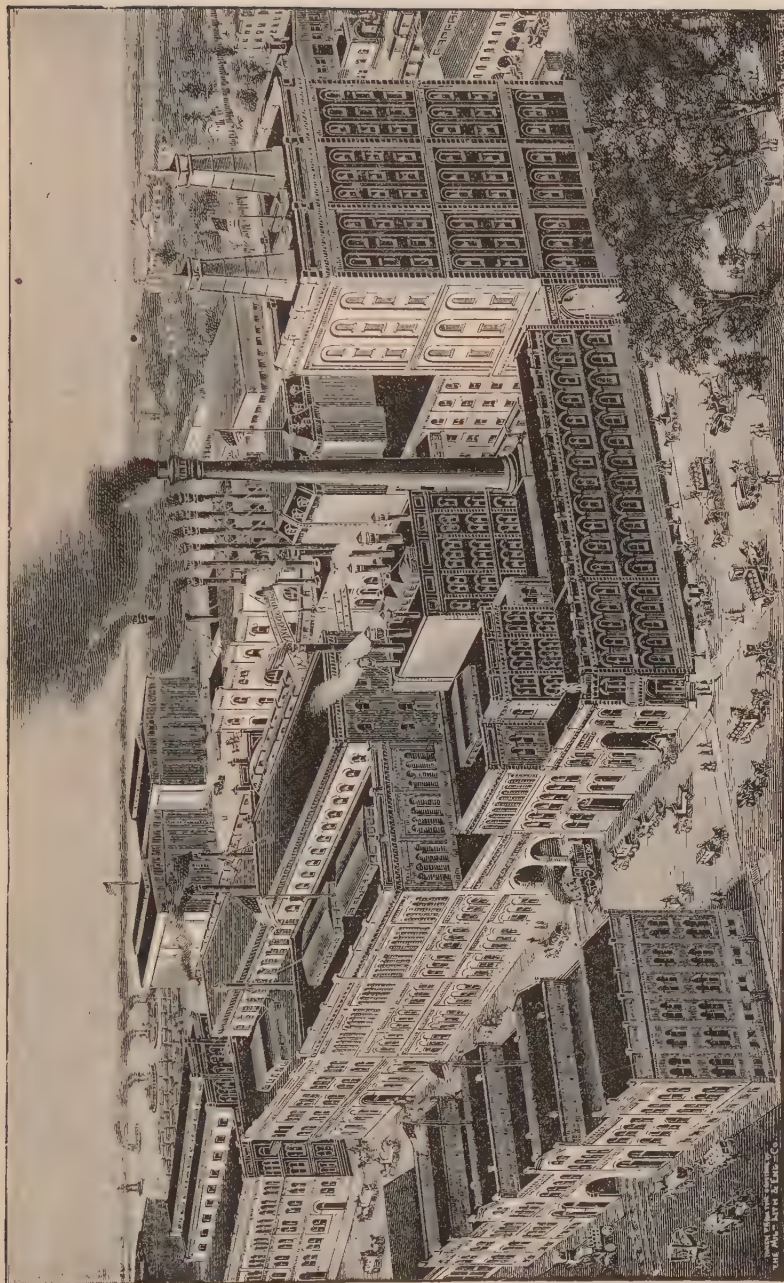
Nassau, Cedar and Liberty Streets, NEW YORK.

GENERAL AGENTS IN CHICAGO:

CHARLES H. FERGUSON & SON, Tacoma Building.



Agricultural Building



WM. J. LEMP BREWING CO. ST. LOUIS, MO.
U. S. A.

— BREWERS OF THE WORLD RENOWNED —

“LEMP’S EXTRA PALE”

AND VARIOUS OTHER BRANDS.

THE attention of visitors to the World’s Fair is invited to the grand exhibit of this Company, located on the second floor of the Agricultural Hall, and a hearty welcome is extended to all for a thorough inspection of the Brewery plant in St. Louis.

ROGERS & BROTHER

WATERBURY, CONN., and NEW YORK.

SOLE MANUFACTURERS OF THE

CELEBRATED
ORIGINAL AND
GENUINE

ELECTRO SILVER-PLATED FLATWARE.

STAMPED

★ ROGERS & BRO., A. I.



...OUR...

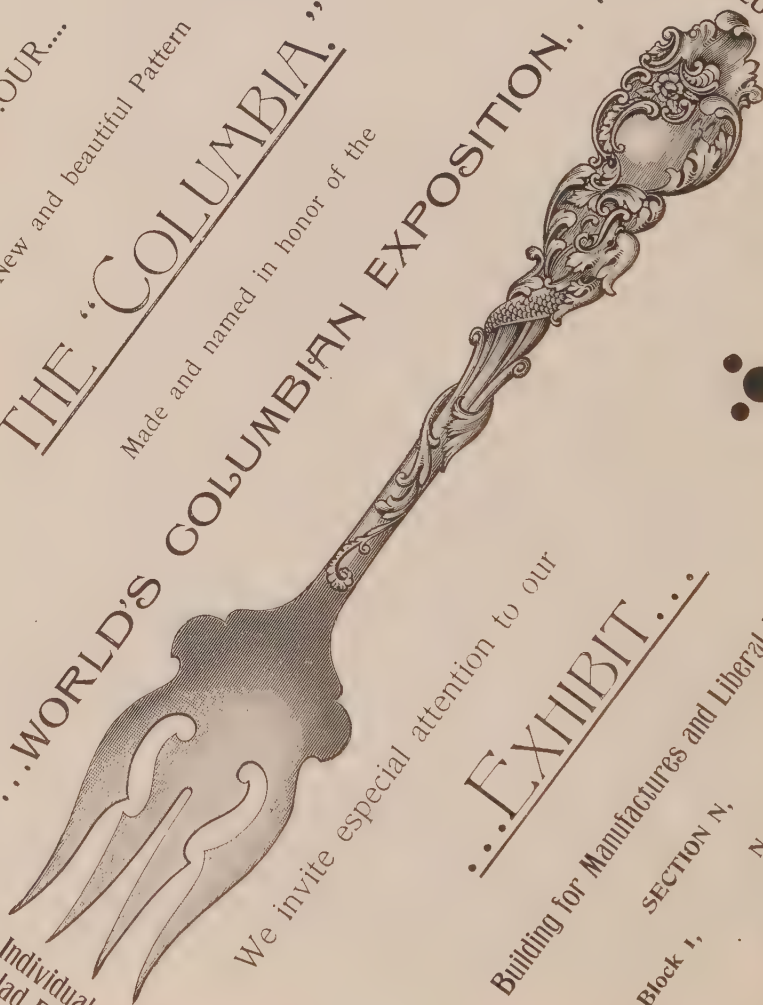
New and beautiful Pattern

THE "COLUMBIA."

Made and named in honor of the

...WORLD'S COLUMBIAN EXPOSITION...

COLUMBIA.



Individual
Salad Fork.

We invite especial attention to our

EXHIBIT...

Building for Manufactures and Liberal Arts.

SECTION N,
Block 1,

No. 12.



DEPARTMENT A.—AGRICULTURE.

STATE boards of agriculture and important organizations of farmers have accorded earnest support to this department in the matter of securing satisfactory exhibits of the products of agriculture comprised in the classification of the department; and according to the statement of Chiet Buchanan, the exhibit of cereals, of animal and vegetable fibers, wool, cotton, hemp, flax, etc., is complete and exhaustive. Methods of irrigation and farm management are illustrated by models, etc. The exhibit of farm implements is the most complete ever seen at any Exposition. A typical United States agricultural experiment station is located in the Agricultural Building. Near by this experiment station is an exhibit by the French government illustrating the methods of teaching agriculture employed in that country. The purpose of the department is to convey to the visitor and student a picture of the abundance, variety, development and possibility of the agricultural resources of the world.

The Agricultural Building is one of the most magnificent structures of the Exposition.

The style of classic renaissance near the shore of and is almost sur lagoons that lead the lake. The 800 feet, its longest east and west. building the de- heroic. The gen- 65 feet above side of the main moth Corinthian and 5 feet in diam- corner and from building pavilions center one being The corner pavil- by curtains, form- arcade around the ing. The main through an open- into a vestibule, trance is had to the diameter. This is



W. I. BUCHANAN, CHIEF.

architecture is ance. It is located Lake Michigan, rounded by the into the park from building is 500x dimensions being For a single story sign is bold and eral cornice line is grade. On either entrance are mam- pillars, 50 feet high eter. On each the center of the are reared, the 144 feet square. ions are connected ing a continuous top of the build- entrance leads ing 64 feet wide from which en- rotunda, 100 feet in surmounted by a

mammoth glass dome 130 feet high. All through the main vestibule statuary has been placed, illustrative of the agricultural industry. Similar designs are grouped about all of the grand entrances in the most elaborate manner. The corner pavilions are surmounted by domes 96 feet high, and above these tower groups of statuary. The design for these domes is that of three female figures, of herculean proportions, supporting a mammoth globe.

Connected with the Agricultural Building and forming one end of the great colonnade connecting the Agricultural Building with Machinery Hall, is the Assembly Hall. This is on the same level as the Intramural railway station, which forms the center of the colonnade and is reached from the second floor of the Agricultural Building also. It will seat about 700 persons and furnishes facilities for lectures, delivered by gentlemen eminent in their special fields of work, embracing every interest connected with live stock, agriculture and allied industries.

The Dairy Building, by reason of the exceptionally novel and interesting exhibits it will contain, is regarded with great favor by World's Fair visitors in general, while by agriculturists it is considered one of the most useful and attractive features of the whole Exposition. It was designed to contain not only a complete exhibit of dairy products, but also a Dairy School, in connection with which will be conducted a series of tests for determining the relative merits of different breeds of dairy cattle as milk, butter and cheese producers.

The building stands near the lake shore in the southeastern part of the park, and close by the general live stock exhibit. It covers approximately half an acre, measuring 95x200 feet, is two stories high and cost \$30,000. In design it is of quiet exterior. On the first floor, besides office headquarters, there is in front a large open space devoted to exhibits of butter, and farther back an operating room 25x100 feet, in which the Model Dairy will be conducted. On two sides of this room are amphitheatre seats capable of accommodating 400 spectators. Under these seats are refrigerators and cold storage rooms for the care of the dairy products. The operating-room, which extends to the roof, has on three sides a gallery where the cheese exhibits will be placed. The rest of the second story is devoted to a café, which opens on a balcony overlooking the lake.

The Dairy School, it is believed, will be most instructive and valuable to agriculturists.

The following are extracts from the special rules and information issued by W. L. Buchanan, Chief, and approved by the Director-General:

Vegetables and other perishable products will be admitted during their season, and may be replaced with fresh specimens when found necessary by obtaining a special permit from the Chief of the Department.

The Chief of the Department reserves the right to order the removal of any vegetable or perishable exhibit, where the exhibit is not properly cared for. Arrangements can be made with the Chief of the Department for the sale of such perishable products as may be necessary to comply with this rule.

A special display of Sugar-beets will be made during the two weeks beginning Monday, October 9, 1893.

A special display of potatoes and other tubers will be made during the two weeks beginning Monday, September 11, 1893.

The space granted each exhibitor is indicated on the permit in feet and inches, together with its location, and is utilized in such manner as the exhibitor has deemed best in arranging his exhibit, under the direction of the Chief of the Department.

All platforms are of uniform height, namely, eight inches. All railings and counters are of uniform height, namely, thirty-six inches above the floor. No partition has been permitted exceeding six feet in height above the floor. Space is computed to an aisle or to some definite point, and all railings and ornamentations are included therein. No distinct form or design is prescribed for the construction of counters, railings, etc., or for the arrangement of an exhibit (columns, pyramids, cones, etc.).

Exhibits of cereals, and other farm products, are accompanied with the following data and information:

- | | |
|---------------------------------------|--|
| a. Name of object. | j. Weight. |
| b. Name of producer. | k. Price of product at nearest home market. |
| c. Place where grown. | l. Average temperature by months for the time intervening between planting and harvesting. |
| d. Character of soil. | m. Average rain or snow-fall by months for the time intervening between planting and harvesting. |
| e. Date of planting. | n. Was exhibit produced by irrigation? |
| f. Quantity of seed planted per acre. | |
| g. Method of cultivation. | |
| h. Date of harvesting. | |
| i. Yield per acre. | |

Dairy products will be received for exhibition only between the first and tenth of the following months: June, July, September and October, 1893.

The arrangement of all dairy exhibits is under the control of this Department.

Exhibits of butter are classified and limited as follows:

Class 1. *Dairy*—Butter made by exhibitor on the farm from a mixed herd. Exhibit to consist of not more than one package, weight to be not less than 10 nor more than 20 pounds.

Class 2. *Dairy*—Butter made by exhibitor on the farm from a herd of one breed. Exhibit to consist of not more than one package, weight to be not less than 10 nor more than 20 pounds.

Class 3. *Prints and fancy packages*—butter must be manufactured by exhibitor. Exhibit to occupy space not exceeding 18 inches square. Total weight of exhibit not to exceed 20 pounds.

Class 4. *Creamery*—butter made by exhibitor from the milk of mixed herds from cream separated from the milk in the creamery where the butter is made. Exhibit to consist of one commercial package, to weigh not less than 55 pounds.

Class 5. *Creamery*—butter made by exhibitor from gathered cream. Exhibit to consist of one commercial package, to weigh not less than 55 pounds.

Exhibits of cheese from the United States and Canada are classified and limited, as follows:

Class 1. *Cheddars*—Exhibit to consist of one cheese, diameter not less than 14 nor more than 16 inches, height not less than 9 inches. Weight to be not less than 50 pounds.

Class 2. *Cheddars*—Home Trade—Exhibit to consist of one cheese not less than 6 inches in height and not less than 12 nor more than 15 inches in diameter.

Class 3. *Mediums*—Exhibit to consist of one cheese not less than 6 nor more than 7½ inches in height, diameter not less than 14 nor more than 15½ inches.

Class 4. *Flats*—Exhibit to consist of one cheese, diameter not less than 14 nor more than 15 inches, weight not less than 30 nor more than 35 pounds.

Class 5. *Young Americas*—Exhibit to consist of four cheese in one package, total weight to be not less than 35 nor more than 40 pounds.

Class 6. *Domestic Swiss*—Exhibit to consist of one cheese, weight to be not less than 80 pounds.

Class 7. *Brick Cheese*—Exhibit to consist of six bricks, in one package, total weight to be not less than 20 nor more than 30 pounds.

Class 8. *Buery*—Cheese made by exhibitor on the farm from exhibitor's own herd. Exhibit to consist of one cheese, weight to be not less than 30 pounds.

Class 9. *Pineapple Cheese*—Exhibit to consist of four cheese in one package.

Cheddars and flats will each be classified in two groups, viz., white and colored, and will be separately judged.

Cheese, other than that mentioned above, offered for exhibit from the United States and Canada, and all cheese offered for exhibit from points outside the United States and Canada are subject to such limitations and restrictions as may be decided upon by the Chief of the Department at the time application for space is made.

All cheese exhibited from the United States and Canada, known commercially as "*American*" and "*Canadian*" cheese, must be manufactured of full new milk.

Cheese that has been cut, bored, or tried in any way, will not be admitted for exhibition.

All cheese will be divided into two classes, that made previous to the year 1893, and that made during the year 1893, and will be judged on the following points, the figures set opposite each indicating the maximum per cent., the total of all such maximums being 100:

Flavor	45
Texture	20
Color	15
Salting	10
Makeup	10
Total	100

Butter will be judged on the following points, the figures set opposite indicating the maximum per cent., the total of all such maximums being 100:

Flavor	45
Grain	25
Color	15
Salting	10
Packing	5
Total	100

The general standard of color for butter will be "*June Grass Butter*."

Exhibits of wool are classified and limited, as follows:

Class 1. Pure-bred fine wools.

Class 3. Pure-bred long wools.

" 2. Pure-bred middle wools.

" 4. All cross-bred wools.

The following entries are made in each of the above classes:

First fleeces from lambs.

Fleeces from animals over two years old.

Fleeces from animals under two years old that have been sheared.

Entries in any of the above classes consist of one fleece in the natural condition taken from the animal. Exhibits are accompanied by the following information:

a. Sex of animal.

e. Weight of animal after shearing.

b. Breeding of animal.

f. Age of fleece in days.

c. Age of animal.

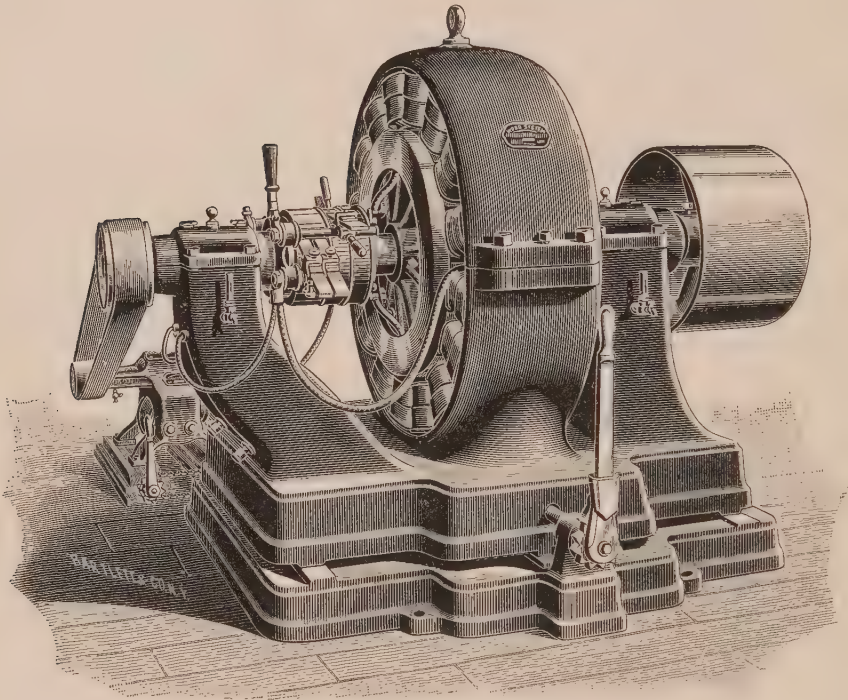
g. Gross weight of fleece at shearing.

d. Date of shearing.

Exhibits of fleeces from pure-bred Angora and Cashmere Goats, their crosses upon other goats, and from the Alpaca, Vicugna and other lanigerous animals are subject to the same restrictions, and accompanied by information as exhibits of wool.

FORT WAYNE ELECTRIC CO.

FORT WAYNE, IND.



CALLS ATTENTION TO ITS NEW

"Wood" Iron Glad Slow Speed Alternator.

THIS Alternator contains the following features of merit: It has the highest electrical efficiency, the best mechanical construction, the most artistic design, and the best ventilated armature ever constructed. The armature is, in fact, indestructible. These dynamos are being manufactured in the following sizes: 750 light, 1,500 light, 3,000 light and 6,000 light capacity.

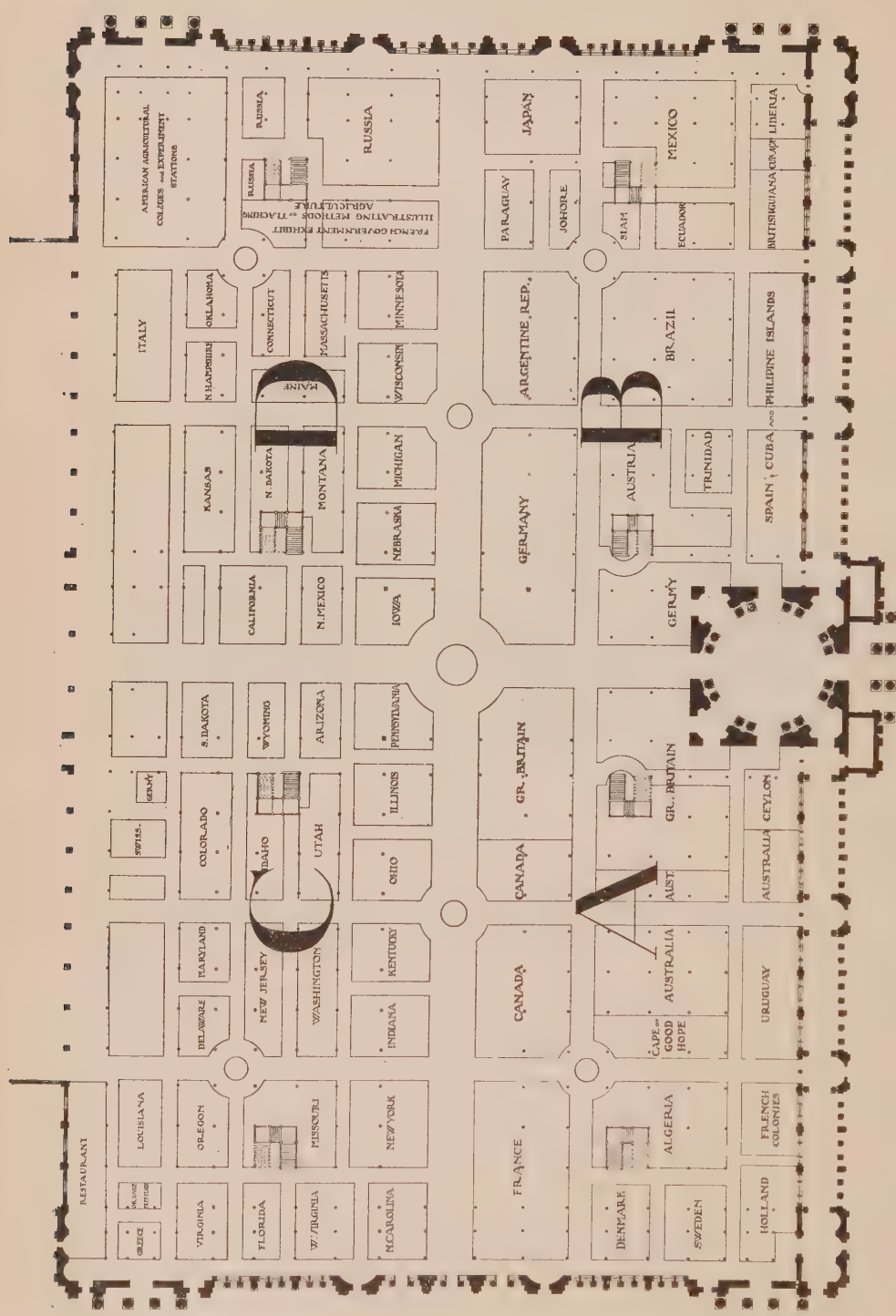
The new Generator and Motor has the following marked characteristics: High Efficiency, Perfect Self-regulation, Uniqueness and Simplicity of Design, Self-Oiling Expansion Boxes, Self-Contained Multiple Fuses, Anti-Friction and Insulating Sliding Base-Frame, New Patent Fire-Proof and Indestructible Rheostat.

Above apparatus can be seen in operation at our World's Fair Exhibit.

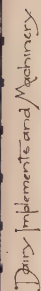
(SEE PAGE 645.)

KEY TO INSTALLATION, AGRICULTURAL BUILDING.

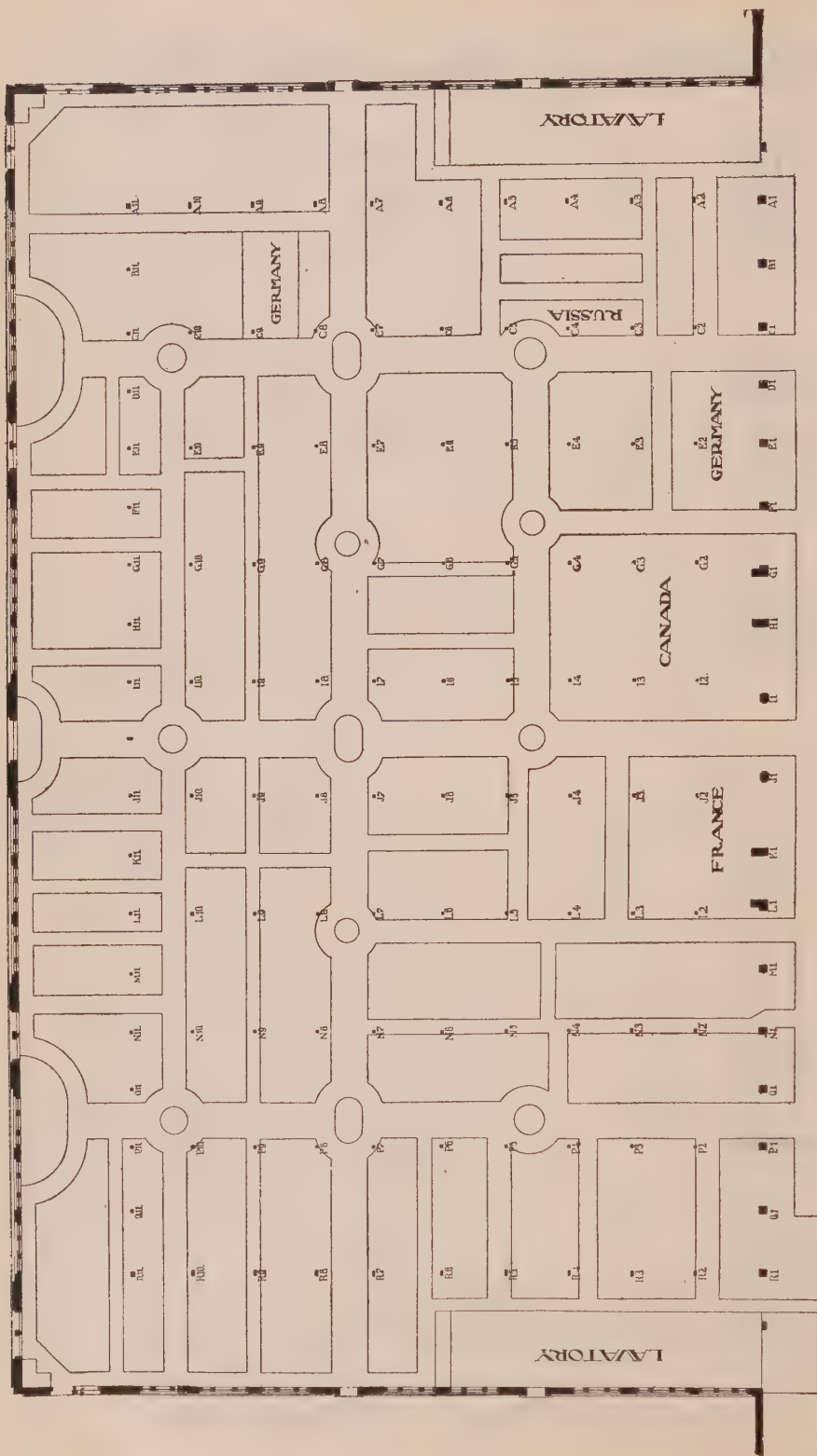
For the purpose of installation of exhibits the building is divided, on the first floor, into five sections, "A" being in the northeast, "B" the northwest, "C" the southeast, "D" the southwest, and "E" in the west section. On the second or gallery floor are "F" in the northeast, "G" in the northwest, "H" in the southeast, and "I" in the southwest section. Beginning at the center of the building in each section, each column is lettered from A down the alphabet, toward the outside of the building. Beginning with the outside, and going toward the center of the building, the columns are numbered from 1 up. The columns in each section are lettered and numbered separately; that is, for example, in each section column "I-A" can be found. The location of an exhibit is indicated by two letters and a figure. For instance, an exhibit located in "H-G-5," means that it is in Section H where the lines of the Columns G and 5 cross. By consulting the ground plan the sections can be readily located, as the columns are plainly lettered and numbered. All the agricultural machinery is in Section D. All exhibits of butter and cheese are in the Dairy Building, the butter on the first floor, and the cheese on the second floor. Exhibits of honey are on the gallery floor, in the east end of Agricultural Building. The ground plan shows the location by name of each of the States and foreign countries.



COPYRIGHTED 1893 BY THE WORLD'S COLUMBIAN EXPOSITION FOR THE EXCLUSIVE USE OF W. B. CONKEY COMPANY, CHICAGO.
OFFICIAL ALLOTMENT OF SPACE
TO
AGRICULTURAL BUILDING,
WORLD'S COLUMBIAN EXPOSITION.
GROUND FLOOR PLAN.



to

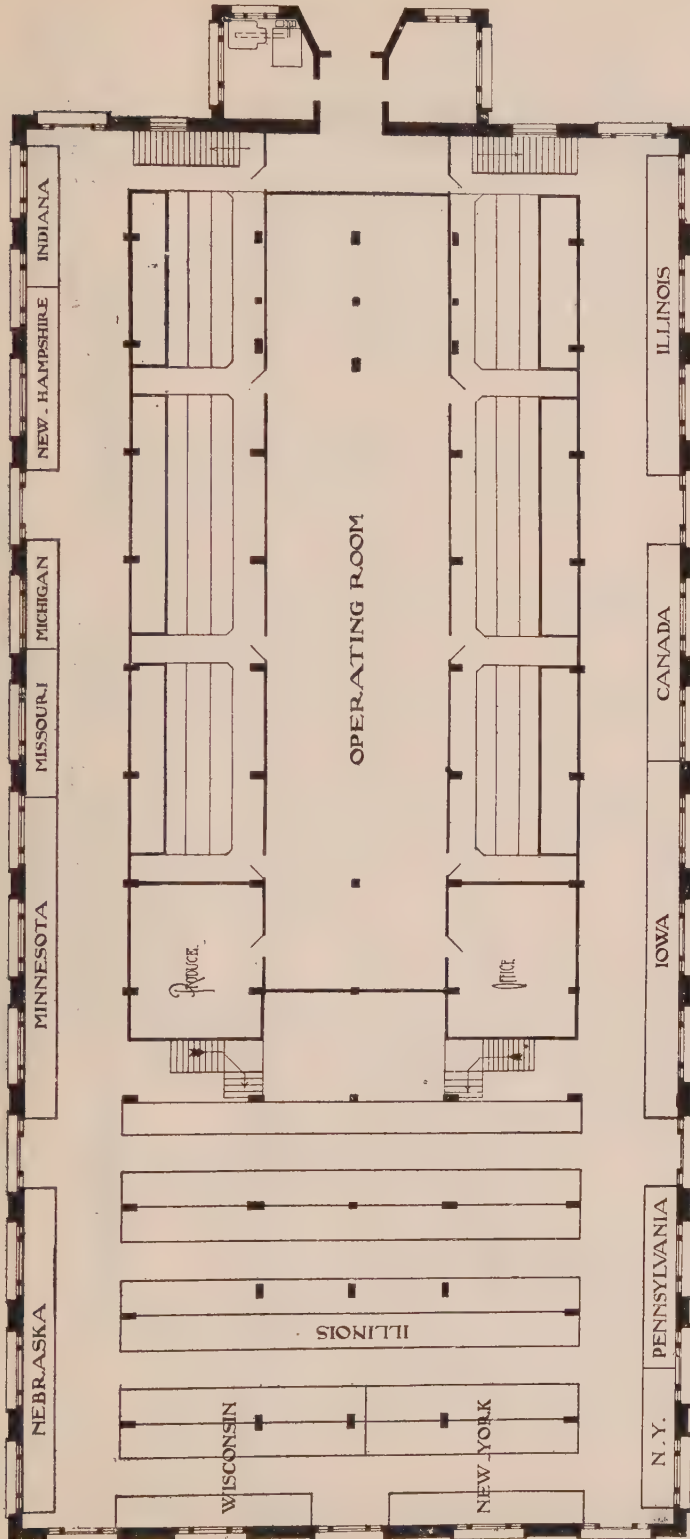


DEPT. OF AGRICULTURE

REFERENCE PLAN FOR LOCATING EXHIBITS
IN THE IMPLEMENT ANNEX
WORLD'S COLUMBIAN EXPOSITION

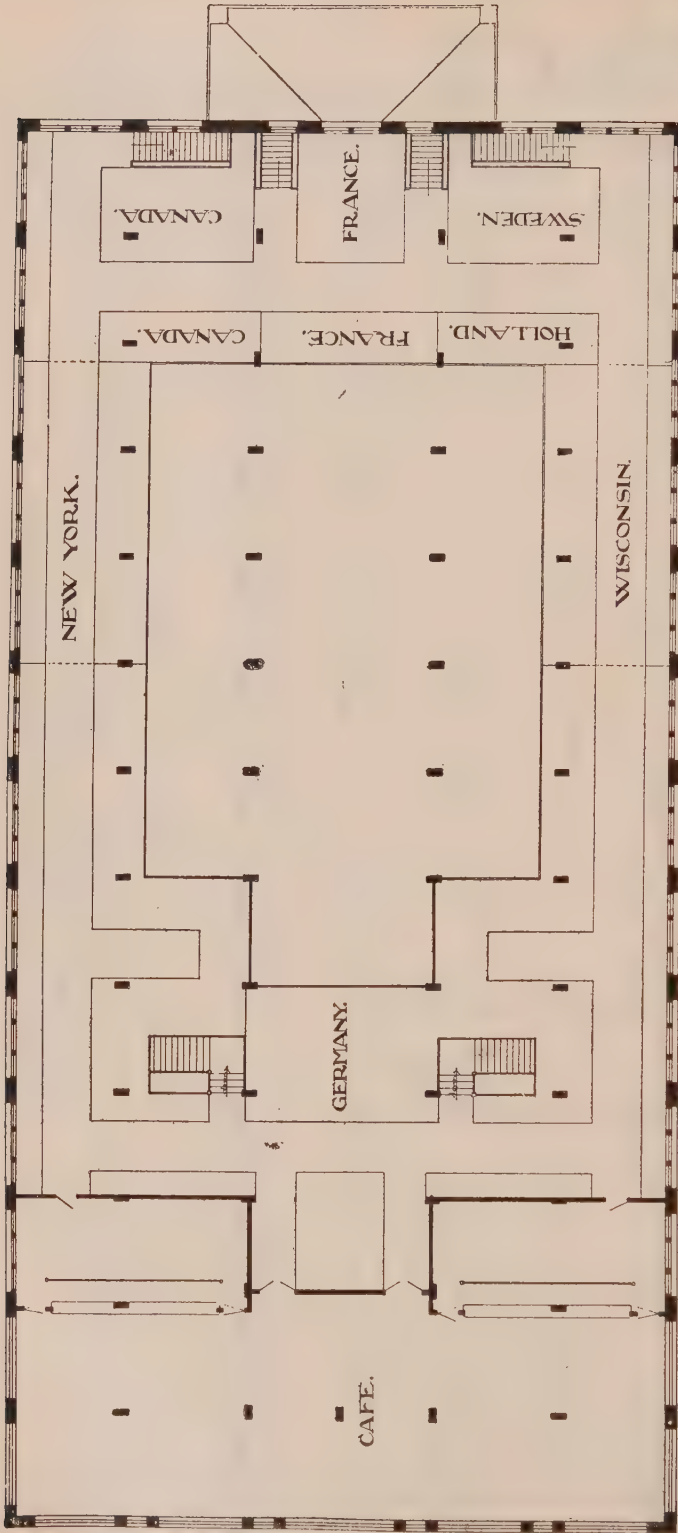
COPYRIGHTED 1893,
BY THE

WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO



DEPT. OF AGRICULTURE
REFERENCE PLAN FOR LOCATING EXHIBITS
IN THE DAIRY BUILDING
WORLD'S COLUMBIAN EXPOSITION

COPYRIGHTED 1893,
BY THE
WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO.



DEPT. OF AGRICULTURE.

REFERENCE PLAN FOR LOCATING EXHIBITS
ON THE SECOND FLOOR
OF THE DAIRY BUILDING
WORLD'S COLUMBIAN EXPOSITION.

COPYRIGHTED 1893,
BY THE
WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO.

SYSTEM OF CLASSIFICATION.

AGRICULTURAL DEPARTMENT (A.)

AGRICULTURE, FOOD AND ITS ACCESSORIES, FORESTRY AND FOREST PRODUCTS. MACHINERY AND APPLIANCES.

GROUP 1.

CEREALS, GRASSES AND FORAGE PLANTS.

- Class 1. Wheat and its culture.
Varieties of wheat grown in America and abroad. Statistics of products and of prices.
- Class 2. Indian corn—all varieties.
Illustrations of methods of planting, tilling and harvesting. Statistics of products and of prices.
- Class 3. Oats.
- Class 4. Barley.
- Class 5. Rye.
- Class 6. Rice and its culture.
- Class 7. Buckwheat and other grains.
- Class 8. Grasses, various species; hay and hay-making.
- Class 9. Forage plants—clover, alfalfa, cow-pea, cornstalks.
- Class 10. Ensilage—silos, etc.
- Class 11. Flours, meals, decorticated grains, grits, etc.

GROUP 2.

BREAD, BISCUITS, PASTES, STARCH, GLUTEN, ETC.

- Class 12. Bread and its manufacture; baking powder, yeast and its preparations.
- Class 13. Cakes and pastry.
- Class 14. Biscuit industry, crackers of all kinds.
- Class 15. Italian paste, semolino, vermicelli, macaroni, etc.
- Class 16. Starch and its manufacture from all sources; from cereals, tubers, arrow root, plantain, cassava, zamia, manioc, tapioca, sago, pearl flour, etc.

GROUP 3.

SUGARS, SYRUPS, CONFECTIONERY, ETC.

- Class 17. Sugar cane, its cultivation and treatment; manufacture of sugar.
- Class 18. Cane sugar, syrup, molasses, etc.
- Class 19. Grape and fruit sugars.
- Class 20. Beet root sugar.
- Class 21. Maple sugar, syrups, etc.
- Class 22. Palm sugar.
- Class 23. Milk sugar.
- Class 24. Sorghum, its culture and uses, and preparation of syrup and sugar.
- Class 25. Glucoses, etc., prepared.
- Class 26. Honey bees and honey; hives and appliances.
- Class 27. Confectionery, confections, etc. (For jams, jellies, etc., see Group 21.)

GROUP 4.

POTATOES, TUBERS AND OTHER ROOT CROPS.

- Class 28. Potatoes, sweet potatoes, yams, etc.
- Class 29. Sugar beets, mangel wurzel.
- Class 30. Carrots, turnips, beets, artichokes, etc.
- Class 31. Peanuts; methods of cultivation, statistics, etc.

GROUP 5.

PRODUCTS OF THE FARM NOT OTHERWISE CLASSED.

- Class 32. Broom corn, pumpkins, squashes, pease, beans, as crops. (For garden vegetables, etc., see Group 23.)

GROUP 6.

PRESERVED MEATS AND FOOD PREPARATIONS.

(For fish product as food, see also Group 40.)

- Class 33. Dried meats, jerked beef.
- Class 34. Smoked beef, hams and bacon.
- Class 35. Salted meats.

- Class 36. Canned meats, including fish, flesh and fowl, pates, sardines, lobsters, oysters, etc.
- Class 37. Meat extracts, soups and food preparations.
- Class 38. Extracts of beef.
- Class 39. Milk, dried or in cans, evaporated or condensed.
- Class 40. Milk and coffee and similar preparations in tin or glass.

GROUP 7.**THE DAIRY AND DAIRY PRODUCTS.**

- Class 41. Milk and cream, with apparatus and methods of treatment.
Apparatus and methods of transporting and delivering milk and cream.
Concentrated or partly evaporated milk. (For condensed milk, see Class 39.)
- Class 42. Butter.
- Class 43. Cheese and its manufacture.
- Class 44. Dairy fittings and appliances—churns for hand and power, butter workers, cans and pails, cheese presses, vats and apparatus.

GROUP 8.**TEA, COFFEE, SPICES, HOPS, AND AROMATIC AND VEGETABLE SUBSTANCES.**

- Class 45. Tea, coffee, cocoa, chocolate and substitutes.
- Class 46. Hops; culture, statistics, etc.
- Class 47. Peppers, cloves, cinnamon and other spices.
- Class 48. Tobacco in the leaf, and tobacco not manufactured.
- Class 49. Machines and appliances for the curing of tobacco and for the manufacture of tobacco, cigars, cigarettes and snuff.
- Class 50. Insecticides. Methods and appliances for the destruction of the tobacco worm and other parasites.
- Class 51. Commercial forms of chewing and smoking tobacco.
- Class 52. Cigars, cigarettes and snuff.

GROUP 9.**ANIMAL AND VEGETABLE FIBRES.**

- Class 53. Cotton on the stalk—its several varieties; long and short staples, shown by living examples, by engravings, photographs, etc.
- Class 54. Methods of planting and culture.
- Class 55. Machines and appliances for planting, cultivating, picking, ginning and bailing.
- Class 56. Cotton seed and its uses.
- Class 57. Remedies and appliances for destroying insects.
- Class 58. Literature, history and statistics.
- Class 59. Hemp, flax, jute, ramie and other vegetable fibres not enumerated, in primitive forms and in all stages for spinning.
- Class 60. Wool in the fleece, in sacks and in bales.
- Class 61. Silk worms, silk in the cocoon; apparatus and appliances used in silk culture.
- Class 62. Hair as a textile material.

GROUP 10.**PURE AND MINERAL WATERS, NATURAL AND ARTIFICIAL.**

- Class 63. Distilled water, for use in the arts and for drinking.
- Class 64. Spring water, mineral water, natural and artificial.
(See also Group 48).
- Class 65. Aerated waters.

GROUP 11.**WHISKEYS, CIDER, LIQUEURS AND ALCOHOL.**

- Class 66. High wines—whiskey and its manufacture.
- Class 67. Rum and other distilled spirits, as saki, samshoo, etc.
- Class 68. Alcohol—pure spirits.
- Class 69. Cordials and liqueurs.
- Class 70. Bitters and mixed alcoholic beverages.
- Class 71. Cider and vinegar.

GROUP 12.**MALT LIQUORS.**

- Class 72. Preparation of the grain. Malt and extracts of.
- Class 73. Beers, ales, porter, stout, etc.

GROUP 13.

MACHINERY, PROCESSES AND APPLIANCES OF FERMENTING, DISTILLING, BOTTLING AND STORING BEVERAGES.

- Class 74. Apparatus of fermenting—vats, cellars, etc.
- Class 75. Distilling. Ordinary and vacuum stills, etc.
- Class 76. Rectifying apparatus and methods.
- Class 77. Machinery and appliances for bottling beer.

GROUP 14.

FARMS AND FARM BUILDINGS.

- Class 78. Farms and farm administration and management, shown by farms, or by maps, models records, statistics and other illustrations.
- Class 79. Irrigation, drainage methods, machinery and appliances. Models of fences, construction of roads; literature and statistics.
- Class 80. Systems of planting, cultivating, harvesting and fertilizing.
- Class 81. Systems of breeding and stock feeding.
- Class 82. Farm buildings, houses, barns, stables, etc.; shown by reference to special examples, or by models, drawings or other illustrations. Stable fittings.

GROUP 15.

LITERATURE AND STATISTICS OF AGRICULTURE.

- Class 83. Statistics of farms; reports of agricultural societies, etc.

GROUP 16.

FARMING TOOLS, IMPLEMENTS AND MACHINERY.

- Class 84. Tillage—manual implements—spades, hoes, rakes, etc. Animal power machinery—plows, cultivators, horse hoes, clod crushers, rollers, harrows, etc. Steam-power machinery—plows, breakers, harrows, cultivators, etc.
- Class 85. Planting—manual implements—planters and hand-drills, hand-seeders, etc. Animal power machinery—grain and fertilizer drills, seeders, planters, etc. Steam power machinery—grain and fertilizer drills, seeders, planters, etc.
- Class 86. Harvesting—manual implements—scythes, rakes, forks, grain cradles, sickles, reaping hooks, etc. Animal power machinery—reapers, binders, and headers, mowers, tedders, rakes, hay elevators, hay loaders and stackers, potato diggers, corn harvesters, combined harvesters, binding twine, etc.
- Class 87. Preparatory to marketing—threshers, clover hullers, corn shellers, winnowers, and apparatus for baling hay, straw and other products, etc.
- Class 88. Applicable to farm economy—Portable engines, wind mills, chaffers, hay and feed cutters, vegetable and root cutters, feed grinders, corn-mills, farm-boilers and steamers, stump extractors, etc.
- Class 89. Traction engines and apparatus for road making and excavating, with illustrations.

GROUP 17.

MISCELLANEOUS ANIMAL PRODUCTS—FERTILIZERS AND FERTILIZING COMPOUNDS.

- Class 90. Miscellaneous animal products—hides, horns, ivory, bones, scales, tortoise shell, shells, glue, gelatine, etc. Animal perfumes—musk, castorium, civet, ambergris, etc., in their crude state, not manufactured.
- Class 91. Hair—for masons' use; for upholsterers, heavy felting, bristles, feathers, down, etc.
- Class 92. Fertilizers of living animals; guanos, raw and mixed.
- Class 93. Fertilizers of fossil origin. Commercial fertilizers—phosphatic, ammoniacal, calcareous, potash, salts, etc.

GROUP 18.

FATS, OILS, SOAPS, CANDLES, ETC.

- Class 94. Animal oils and fats—lard, tallow, butterine, oleomargarine, lard oil, whale oil. (For, fish oils see also Department D.)
- Class 95. Vegetable oils, cotton-seed oil, olive oil, rape-seed oil, linseed oil, palm-oil, etc., with the seeds and residues.
- Class 96. Soaps and detergent preparations. (For perfumery and toilet soaps see also Group 87.)
- Class 97. Stearine, glycerine, paraffine, etc. Spermaceti, ozocerite, wax, candles, etc.
- Class 98. Lubricating oils, axle grease, etc.

..... ESTABLISHED 1866

F. G. LOGAN.

F. K. DUNN.



CLARKSON COWL.

DANIEL BUTTERS.

F. G. Logan & Co.

4 and 5 Board of Trade,
CHICAGO



Commission Merchants
and Cash Grain Handlers.

PRIVATE WIRES TO THE SEABOARD,
THE NORTHWEST, WEST AND SOUTHWEST.

Dept. A.--Agriculture, Food and its Accessories.

UNITED STATES.

GROUP 1.

Cereals, Grasses and Forage Plants.

1. American Cereal Co., New York. Farinaceous food, etc. F-D-6 & C-6 11
2. Anderson, Neils, Utah. Wheat. 1
3. Baker, G. W., Utah. Wheat. 1
4. Belshaw, Geo., Eugene, Ore. Wheat. 1
5. Chambers, Vermillion, South Dakota. Corn. 2
6. Conklin, E. W., & Son, Binghamton, N. Y. Timothy and clover seed. C-A-0 8
7. Davis, R. T., Mill Company, St. Joseph, Mo. Flour. H-O-5 11
8. Dickinson, Albert, Company, Chicago.
 - a Pop corn. C-E-O 2
 - b Agriculture seeds. 8
 - c Ensilage. 10
9. Duluth Imperial Mill Co., Duluth, Minn. Flour. H-L-6 11
10. Elsworth, Edw., & Co., New York.
 - a Oats. F-G-5 3
 - b Buckwheat. 7
 - c Flour. 11
11. Furgeson, Holden, Missouri. Wheat. 1
12. Henderson, Peter, & Co., New York. Field seeds. C-D-0 8
13. Hungarian Flour Mills, Denver, Col. Flour. H-J-6 11
14. King, J., Vermillion, South Dakota. Corn. 2
15. Listeman Milling Co., Wm., Superior, Wis. Flour. H-E-5 11
16. Pettijohn California Breakfast Food Company, Minneapolis, Minn. Prepared breakfast food. F-C-5 11
17. Pope, Chas., Glucose Co., Chicago. Meal. G-I-8 11
18. Porter, L. C., Milling Co., Winona, Minn. Flour, flour testing system. H-J-6 11
19. Salmon Milling Company, Beloit, Wis. Flour and breakfast food. H-D-4 11
20. Sessinghaus Milling Co., St. Louis. Flour. H-J-4 11
21. Stein, Hirsch & Co., Chicago. Potato flour. F-D-8 11
22. Tiedemann, Chas., Milling Company, O'Fallon, Ill. Flour. H-E-6 11
23. Washburn-Crosby Company, Minneapolis, Minn. Flour. H-C-5 & H-B-5 11
24. Wilson, Samuel, Mechanicsville, Pa. Field seeds. C-F-0 8
25. Winterhoff & Wessel, Lansing, Ill. Curled grass. Sec. F 8
26. Woodward & Croffut, Chicago. Cornmeal, flour, cereal flakes. H-G-5 11

GROUP 2.

Bread, Biscuits, Pastes, Starch, Gluten, Etc.

27. American Biscuit & Manufacturing Co., Chicago. Crackers and biscuit. G-L-5 14
28. American Preservers' Co., Davenport, Ia. Macaroni and other pastes. H-T-9 15
29. Barnett, Wm., Philadelphia. Wheat starch. F-H-7 16
30. Canepa Bros., Chicago. Macaroni and other pastes. G-G-4 15
31. Chicago Macaroni Company, Chicago. Macaroni, noodles, etc. F-E-9 15
32. Chicago Sugar Refining Co., Chicago. Starch. G-I-9 16
33. Columbia Macaroni Mfg. Co., New York. Macaroni and other pastes. G-F-4 15
34. De Muth, J. A., St. Joseph, Mo. Kneader, biscuit machine. E-C-1 12
35. Dieter, The J. P., Co., Chicago. Baking powder. H-E-7 12
36. Durkee, E. R., & Co., New York. Baking powder. F-L-8 12
37. Gillett, E. W., Chicago. Yeast cakes. F-M-8 12
38. Kingsford, T., & Son, Oswego, N. Y. Starches. F-G-9 16
39. Mazza, A. F., & Co., Denver, Col. Macaroni and vermicelli. G-G-6 15
40. Middleby Oven Company, Boston. Ovens. E-C-4 12
41. National Starch Manufacturing Company, New York. F-K-8 & F-I-8
 - a Yeast. 12
 - b Starches. 16
42. Nebraska City Starch & Cereal Mills, Nebraska City, Neb. Starch and cereals. Sec. F 16
43. New York Biscuit Company, New York. Crackers and biscuit. G-I-5 14
44. People's Bread Co., Madison, Wis. Ginger snaps. G-H-6 13
45. Pope, Chas., Glucose Co., Chicago. Starch. G-I-9 16
46. Price Baking Powder Co., Chicago. Baking powder. F-H-9 12
47. Rumford Chemical Works, Providence, R. I. Baking powder and preparations. F-I-9 12
48. Stein, Hirsch & Co., Chicago. Starch. F-D-8 16
49. Thatcher, H. D., & Co., Potsdam, N. Y. Baking powder. F-D-9 12
50. United States Baking Company, Pittsburgh. Crackers and biscuit. G-K-5 14

DEPARTMENT A.—AGRICULTURE.

51. Wilkins, Amos, Coburg, Ore.
a Grasses. 8
b Clover. 9
52. Wilkins, M., Coburg, Ore.
a Wheat. 1
b Oats. 3
c Barley. 4
d Rye. 5

GROUP 3.

Sugars, Syrups, Confectionery, Etc.

53. American Sugar Refining Company, New York.
a Raw and refined sugars. 17
b Syrups. 21
54. Chattanooga Plow Company, Chattanooga, Tenn. Cane mills, evaporators, furnace and kettle. E-E-11 24
55. Chicago Sugar Refining Co., Chicago.
a Grape sugars. G-I-9 19
b Syrups. 18
c Glucose, gluten, etc. 25
56. Croft & Allen, Philadelphia. Confectionery. G-J-9 27
57. Curtis & Sons, Portland, Me. Chewing gum. H-K-9 27
58. Dunbar's, G. W., Sons, New Orleans.
a Sugar cane. G-E-6 17
b Syrup in glasses. 18
59. Hall, J. W., Portland, Maine. Wafers. G-I-7 27
60. Hastings, Matthew E., New York Mills, N. Y. Bee-keepers' supplies. A-G-5 26
61. Hill, A. G., Kendallville, Ind. Bee-keepers' supplies. H-O-4 26
62. Lowney, The Walter M., Co., Boston. Chocolate bonbons. Special building. 27
 For exhibit see page 636.
63. Maillard, Henry, New York. Confectionery. G-B-7 27
64. National Starch Manufacturing Company, New York. F-K-8 & F-I-8
a Grape sugar. 18
b Glucose. 25
65. Ohio Maple Sugar & Syrup Exhibit, Maple sugar and syrup. 21
66. Pope, Chas., Glucose Co., Chicago. Glucose. G-I-8 25
67. Post, C. C., Burlington, Vt. Sap spouts, bucket hangers, maple syrup. H-G-1 21
68. Putnam, W. H., River Falls, Wis. Bee-hives. Sec. H 26
69. Root, A. I., Medina, Ohio. Bee-keepers' supplies. H-O-4 26
70. Schall & Co., New York. Confectionery ornaments. G-E-8 27
71. Vermont Maple Sugar Exhibit. Maple sugar and syrup. H-I-9 21
72. Walburn-Swenson Company, Chicago. Beet sugar plant. E-K-11 20

GROUP 6.

Preserved Meats and Food Preparations.

73. American Lactose Company, New York. Milk sugars. G-F-8 39
74. American Ready Food Co., Chicago. Condensed soups. F-C-7 37
75. Anglo-American Provision Co., Chicago. Hog products. D-D-0 36

76. Armour Packing Co., Kansas City, Mo. F-C-9
a Canned meats. 36
b Soups. 37
77. Armour & Co., Chicago. D-A-1
a Canned meats. 36
b Canned soups. 37
c Extract of beef. 38
 For exhibit see page 1000.
78. Barnett Produce Company, Chicago. Sauer kraut. H-F-7 36
79. Bovinine Co., New York. Extract of beef. F-H-8 38
80. Burnham & Morrill Co., Portland, Maine. H-D-9
a Canned meats. 36
b Canned soups. 37
81. Cowdrey, E. T., Co., Boston.
a Deviled ham. F-E-6 36
b Soups. 37
82. Cudahy Packing Co., South Omaha, Neb. D-D-0
a Canned meats. 36
b Extract of beef. 38
83. Curtice Bros. Co., Rochester, N. Y.
a Canned meats. F-M-8 36
b Canned vegetables and fruits; plum puddings. 37
84. Curtice-Olney Co., Rochester, N. Y. Canned corn and succotash. H-I-9 37
85. Elgin Condensed Milk Co., Elgin, Ill. Condensed milk and cream. G-D-5 39
86. Erie Preserving Company, Buffalo, N. Y. Canned vegetables. H-L-8 37
87. Fairbank Canning Company, Chicago.
a Canned meats. D-B-1 36
b Canned soups. 37
88. Fernald, Keen & True Co., West Poland, Me. Canned sugar-corn. H-J-8 37
89. Franco-American Food Co., New York. F-I-7
a Game pates. 36
b Soups, etc. 37
90. Grand Traverse Chipped Potato Company, Traverse City, Mich. Chipped potatoes. H-I-6 37
91. Groves, Jacob H., Portland, Maine. Potato chips. H-K-4 37
92. Heinz, H. J. Co., Pittsburg, Pa. Fruit butter. F-D-7 & E-D-7 37
93. Helvetia Milk Condensing Co., Highland, Ill. Evaporated cream. G-C-5 39
94. Howell Condensed Milk & Cream Co., Goshen, N. Y. Evaporated milk and sterilized cream. G-E-5 39
95. Huckins, J. H. W., & Co., Boston.
a Sandwich meats. F-J-9 36
b Canned soups. 37
96. Humbert, Henry, & Co., Brooklyn, N. Y. Jelly, soups. H-I-8 37
97. Libby, McNeill & Libby, Chicago.
a Potted meats, soups. F-B-8 37
b Beef extract. 38
98. Morris, Nelson, & Co., Chicago.
a Dried beef. D-C-0 33
b Smoked pork, hams and bacon. 34
c Extracts of beef and hog products. 38
99. National Pure Food Co., Cincinnati. Canned soups, plum pudding, etc. F-F-9 37

UNITED STATES.

100. New York Condensed Milk Co., New York. Condensed milk, evaporated cream. G-C-6 39
101. North Packing & Provision Co., Boston. Salted meats. D-D-0 35
102. North Packing & Provision Co., Boston. D-B-0
- a Dried beef. 33
- b Hams and bacon. 34
- c Salted meats. 35
- d Tongues, tripe, pigs' feet, sausages and pepsin. 37
- For exhibit see page 425.
103. Schepp, Leopold, New York. Coconut. F-F-5 37
104. Snider, The T. A., Preserve Co., Cincinnati. Soups. F-B-9 37
105. Societe Faiene Lactee, Vercy, Switz. Condensed milk. G-G-5 39
106. St. Charles Evaporated Cream Company, St. Charles, Ill. Evaporated cream. G-D-6 39
107. Straus, Elise, St. Louis. Food preparations. H-Y-8 37
108. Swift and Company, Chicago. D-E-0
- a Dried beef. 33
- b Hams and bacon. 34
- c Salted meats. 35
- d Beef extracts; beef and hog products. 37
- e Fresh meats.
109. Tanty, F., & Co., Chicago. F-D-4
- a Canned meats, patés, game, etc. 36
- b Soups and plum pudding. 37

GROUP 7.

The Dairy and Dairy Products.

110. American Mfg. Co., Waynesboro, Pa. Creamers. H-J-1 44
111. Andrews, N. S., Dubuque, Iowa. Churns, milk testers. D-1 44
112. Baldwin Woodenware Co., La Fayette, Ind. Churns. I-E-1 44
113. Boyd, John, Chicago. 41
- a Creamer. 41
- b Cream and cheese vats. 44
114. Buckeye Churn Co., Sidney, Ohio. Churns. I-G-1 44
115. Columbia Cream Separator Co., Avon, N. Y. Cream separators. I-D-1 44
116. Cornish, Curtis & Greene Mfg. Co., Fort Atkinson, Wis. Dairy implements. I-K-1 44
117. Cross, Isaac T., & Co., Watertown, N. Y. Churns. H-I-1 44
118. Creamery Package Mfg. Co., Chicago. Dairy supplies and fittings. H-B-1 44
119. Davis & Rankin Building & Manufacturing Co., Chicago. Dairy machinery. I-F-1 44
120. DeLaval Separator Co., New York. Cream separators, churn attachments. I-H-1 44
121. Deuscher, H. P., Company, Hamilton, Ohio. Churn. E-R-10 44
122. Diamond Balance Churn Co., Ballston, N. Y. Churns. H-D-1 44
123. Dickson, Charles J., Margaretville, N. Y. Cream raiser and cream heater. I-E-1 41
124. Elsworth, Edw., & Co., New York. Dog biscuit. 41

125. Embree, P., & Son, West Chester, Pa. Butter worker. I-C-1 44
126. Embree, P., & Son, West Chester, Pa. Butter worker. I-D-1 44
127. Evans & Heulings, Haddonfield, N. J. Dairy appliances. I-L-1 44
128. Flint Cabinet Creamery Co., Flint, Mich. Creamery supplies. I-H-1 44
129. Genesee Salt Co., New York. Salt. H-B-1 44
130. Hansen's, Chr., Laboratory, Little Falls, N. Y. Dairy supplies. I-E-1 44
131. Jack Frost Freezer Co., New York. Ice cream freezers. H-C-1 41
132. Jaque, Joseph, St. Louis. Churn. H-L-1 44
133. Leonard, Orin, Belvidere, Ill. Cream cooler. H-G-1 44
134. Ludington Woodenware Co., Ludington, Mich. Butter molds, etc. H-K-1 44
135. Magic Freezer Co., Chicago. Ice cream machines. H-J-1 44
136. Marquis, James B., Norwich, N. Y. 42
- a Butter. I-L-1 42
- b Cheese manufacture. 43
137. Mears, C., & Son, Bloomsburg, Pa. Churn. H-G-1 44
138. Moseley & Pritchard Mfg. Co., Clinton, Iowa. Dairy supplies. I-C-1 44
139. North Western Butter & Cheese Co., Romeoville, Ill. Cheese. Dairy Bldg. 43
140. Reid, A. H., Philadelphia. Dairy appliances. I-J-1 44
141. Romney, Caroline Westcott, Chicago. Milk cooler. I-J-1 41
- 141a. St. Charles Evaporated Cream Co., St. Charles, Ill. Evaporated cream. 39
142. Scoville, E. U., Manlius, N. Y. Faucets. I-F-1 44
143. Sharples, Philip M., Elgin, Ill. Cream separators. H-I-1 44
144. Simpson, McIntire & Co., Boston. Butter in sealed tins. H-G-8 42
145. Strickler, J. S., & Co., Sterling, Ill. Butter color. I-B-1 44
146. Thatcher Mfg. Co., Potsdam, N. Y. Dairy supplies. I-K-1 44
147. Upton Mfg. Co., West Upton, Mass. Milk aerator. H-L-1 41
148. Vermont Farm Machine Company, Bellows Falls, Vt. Dairy appliances. I-M-1 44
149. Watson, Abraham, New York. Ice cream freezers. J-C-1 44
150. Wells & Richardson Co., Burlington, Vt. Butter and cheese color. I-J-1 44

GROUP 8.

Tea, Coffee, Spices, Hops, and Aromatic and Vegetable Substances.

151. Antonsanrti, M., & Co., New Dorp, N. Y. Sauces. F-H-5 47
152. Baker, Walter, & Co., Dorchester, Mass. Chocolate and cocoa. G-G-4 45
- Special bldg.
- For exhibit see page 342.
153. Baron Machine Co., Baltimore, Md. Cigar bunching machine. E-C-2 49
154. Clark Coffee Co., Boston. Combination of cocoa and coffee. H-C-7 45
155. Consolidated Cigarette Company, New York. Cigarettes. I-H-8 52

DEPARTMENT A.—AGRICULTURE.

156. 150 Connecticut Farmers. Connecticut leaf tobacco. Sec. G 48
157. Curtice Bros. Co., Rochester, N. Y. Tomato ketchup. F-M-8 47
158. Devoe, Augustus A., Spotswood, N. J. Snuff. I-G-7 52
159. Dieter, The J. P., Co., Chicago. *a* Roasted coffees. H-E-7 45
b Spices and mustard. 47
160. Doan, H. A., Philadelphia. Pulverized coffee. H-K-9 45
161. Durkee, E. R., & Co., New York. Spices, mustard, sauces, etc. F-L-9 47
162. Ellinger, Julius, & Co., New York. Cigars. I-I-7 52
163. Empire State Cigar Machine Company, Philadelphia. Cigar machines. E-C-2 49
164. Garcia, F. A., & Co., New York. Cigars. I-E-9 52
165. Gits & Van Hee, Ghent, Minn. Chicory coffee and root. H-K-9 45
166. Graf, Wm., & Co., Milwaukee, Wis. Cigars. I-J-7 52
167. Gulden, Chas., New York. Mustard. F-I-7 47
168. Heinz, H. J., Co., Pittsburg, Pa. Pickles and other condiments. F-E-7 & F-D-7 47
169. Huylers, New York. Chocolates and cocoa. G-E-7 45
170. International Cigarette Machine Co., Richmond, Va. Cigarette machines. I-M-8 49
171. Kerbs, Wertheim & Shiffer, New York. Cigars. I-C-9 52
172. Kimbal, Francis A., National City, Cal. Olives. H-F-6 47
173. Krembs & Co., Chicago. Chicory. H-D-7 45
174. Kresl & Mallue, Chicago. Cigar molds, manufacturers' supplies. Sec. I 49
175. Kyriazi freres, Cairo, Egypt. Cigarettes. I-F-8 52
176. Lompoc Exhibit, Santa Barbara, Cal. Mustard. Sec. H 47
177. Lorillard, P., Co., Jersey City, N. J. *a* Tobaccos. I-B-9 51
b Snuff. 52
178. Lozano, Pendas & Co., New York. Cigars. I-E-7 52
179. Maillard, Henry, New York. Cocoa; chocolate. Q-B-7 45
180. McIlheny's Son, E., New Iberia, La. Pepper sauce; pepper. H-K-7 47
181. Millar, E. B., & Co., Chicago. Spices; condiments. H-B-9 47
182. National Pure Food Co., Cincinnati. Catsup. F-F-9 47
183. Nestor Gianoclis, Cairo, Egypt. Cigarettes. I-G-9 52
184. New England Tobacco Growers' Ass'n, Poquonock, Conn. Leaf tobacco. I-G-9 48
185. New England Tobacco Growers' Assn., East Hartford, Conn. Leaf tobacco. I-G-8 48
186. New York Condensed Milk Co., New York. Extract of coffee. G-C-6 45
187. Ottenberg, L., & Co., New York. Cigars. I-G-9 52
188. Portuondo, Juan F., Cigar Mfg. Co., Philadelphia. Cigars. I-E-9 52

189. Richardson, Chas., Fredericksburg, Va. Pickles. H-K-7 47
190. Sanchez & Haya, New York. Cigars. I-K-7 52
191. Seidenberg & Co., New York. Cigars. I-H-7 52
192. Snider, T. A., Preserve Co., Cincinnati. Chili sauce and catsup. F-B-9 47
193. Stachelberg, M., & Co., New York. Cigars. I-L-7 52
194. Stahl, Jacob, Jr., & Co., New York. Cigars. I-D-8 51
195. Surbrug, John W., New York. Smoking tobacco. I-D-9 51
196. Upmann, Carl, New York. Cigars. I-K-9 52
197. Van Houten, C. J., & Zoon, Chicago. Cocoa. Special bldg. 45
For exhibit see page 345.
198. Warren Cigar Co., Flint, Mich. Cigars. I-H-7 52
199. Whiton, Nash & Co., New York. Salt. H-F-1 47
200. Vallens, Eugene, & Co., Chicago. Cigars. I-D-7 52
201. Ybor, V. M., & Manrara, New York. Cigars. I-F-7 52

GROUP 9.

Animal and Vegetable Fibres.

202. American Cotton Oil Co., New York. Cotton seed oil and products. C-H-0 56
203. Armour & Co., Chicago. Wool. D-A-1 60
For exhibit see page 1000.
204. Brinker, Jos. H., West Point, Miss. Baled cotton. C-D-0 53
205. Bradley, David, Manufacturing Company, Chicago. Cotton planters. E-J-10 55
206. Chase Cotton Gin Company, Milford, Mass. Cotton gins. E-R-1 55
207. Deere & Mansur Co., Moline, Ill. Cotton planter. E-G-10 55
208. Eagle Cotton Gin Company, Bridge-water, Mass. Cotton gins, conveyors, press, etc. E-Q-1 55
209. Engelberg Huller Company, Syracuse, N. Y. Cotton gin. E-C-5 55
210. Gullett Gin Company, Amite City, La. Cotton gins, distributors, press, etc. E-R-1 55
211. Hussey, Geo. B., Providence, R. I. Bale covers. F-D-4 55
212. Laney, Arnon, Miles City, Montana. Fleece of wool. Sec. G 60
213. Martin, Robert J., Billings, Mont. Fleeces of wool. Sec. G 60
214. McGill, Thomas, Billings, Mont. Wool. Sec. G 60
215. Munger Improved Cotton Machine Co., Birmingham, Ala. Cotton gin, presses and machinery. E-R-2 55
216. Jenizen, E. M., & Bro., Shawmut, Montana. Fleece of wool. Sec. G 60
217. National Cotton Gin & Wool Burrer Co., Boston. Cotton gin, feeder and wool burrer. E-R-1 55
218. Thomas M'fg Co., Little Rock, Ark. Cotton gin, presses, feeders, etc. E-R-1 55
219. Wallis, Lisenard Cotton Picker & Machinery Co., New York. Cotton picker. 55

UNITED STATES.

GROUP 10.

Pure and Mineral Waters, Natural and Artificial.

220. Allouez Mineral Spring Co., Green Bay, Wis. Mineral water, ginger ale. I-G-4 64
221. Bowden Lithia Springs Co., Lithia Springs, Ga. Mineral water. I-F-6 64
222. Brown & Logan, Chicago. Mineral water. J-E-4 64
223. Burr, William H., Janesville, Wis. Mineral water. I-J-4 64
224. Excelsior Springs Company, Excelsior Springs, Mo. Mineral waters and ginger ale. I-C-5 & I-D-5 64
225. Forbes, J. P., & Co., San Francisco. Mineral water. I-E-6 64
226. Garrigues, Samuel F. W., Woodbury, N. Y. Mineral water. G-M-8 64
227. Goode, Thomas F., Buffalo Lithia Springs, Va. Mineral water. I-D-6 64
228. Londonderry Lithia Spring Water Co., Nashua, N.H. Mineral water. I-D-6 64
229. Manitou Mineral Water Co., Manitou, Colo. Mineral waters, ginger champagne and sarsaparilla. I-B-4 64
- 229a. Morgan, John, New York. Mineral water. 64
For exhibit see page 1004.
230. Pikes Peak Mineral Water Company, Manitou, Col. Mineral water and ginger ale. G-G-5 64
231. Ricker, Hiram, & Sons, South Poland, Me. Mineral water. I-B-6 64
232. Ries, Jacob, Shakopee, Minn. I-K-6 64
a Natural mineral waters. 64
b Ginger ale, sarsaparilla, soda, etc. 65
233. Salutaris Co., St. Clair Springs, Mich. Mineral water. I-C-5 64
234. Schmidt, J. P. C., Green Bay, Wis. Mineral water. I-E-4 64
235. Stafford Mineral Spring & Hotel Co., New Orleans. Mineral water. G-F-9 64
236. Underwood Co., Falmouth Foreside, Maine. Mineral water. I-K-6 64
237. Waukesha Lithia Spring Co., Chicago. Mineral water. I-G-6 64
238. Waukesha Lithia Spring Co., Waukesha, Wis. Mineral water. I-G-6 64

GROUP 11.

Whiskies, Cider, Liqueurs and Alcohol.

239. Bernheim Bros., Louisville, Ky. Sour mash whiskies. South of Annex. 66
240. Burrell Bros., Freeport, Ill. Vinegar. H-G-9 71
241. Cushing Process Company, Boston.
a Bourbon and rye whiskies. H-G-7 66
b Rum and brandy. 67
242. Dallemand & Co., Chicago. Rye whisky. I-L-5 66
243. De Lissa, Alpha S., Philadelphia. Fancy drinks and cocktails. I-G-4 70
244. Franchi, Emilio M., New York. Vermouth. Sec. I 69
245. Guckenheimer, A., & Bros., Pittsburgh, Pa. Rye whisky. I-L-5 66
246. Hannis Distilling Company, Philadelphia. Rye whiskies. I-J-5 66
For exhibit see page 631.
247. Heinz, H. J., Co., Pittsburgh, Pa. Vinegar. F-D-7 & E-7 71

248. Large Distilling Company, Pittsburgh, Pa. Whisky. I-F-5 66
249. Lee, J. L., Williamstown, Ky. Bourbon whisky. I-H-5 66
250. Lockhart Chemical Co., Chicago. Orange cider. H-G-9 71
251. Mattingly & Moore Distilling Co., Bardstown, Ky. Whisky. I-K-5 66
252. Mihalovitch, Fletcher, & Co., Cincinnati. Liqueurs in cases. I-I-6 66
253. Moore & Sinnott, Philadelphia. Whisky. I-J-6 66
For exhibit see page 422.
- 253a. Old Times Distillery Co., Louisville, Ky. Whisky. 66
254. Osborn, John, Son & Co., New York. Rye whisky. I-K-4 66
256. Rheinstrom Bros., Cincinnati.
a Whiskies. I-F-5 66
b Liqueurs. 69
c Bitters. 70
257. Schuetz, Renziehausen & Co., Pittsburgh. Rye whisky. I-M-5 66
258. Ulman-Goldsborough Co., Baltimore. Whiskies. I-J-4 66
259. Wolfe's Udolpho, Son & Co., New York. Schnapps. I-H-4 69

GROUP 12.

Malt Liqueurs.

260. Anheuser-Busch Brewing Association, St. Louis. Lager beer. I-M-10 73
261. Barrett Brewing Co., Cleveland, Ohio. Beer, ale, porter. Sec. I 73
262. Beadleston & Woerz, New York. Lager beer, ales, porter. G-M-7 73
263. Bergner & Engel Brewing Co., Philadelphia. Beer, ale, porter. I-M-9 73
264. Besley's Waukegan Brewing Company, Waukegan, Ill. Ale and porter. G-N-5 73
265. Betz, John F., & Son, Philadelphia. Beer, ale, stout. G-N-5 73
266. Evans, C. H., & Sons, Hudson, N. Y. Ale, stout. G-O-5 73
267. Greenway Brewing Co., Syracuse, N. Y. Ale, stout. I-M-6 73
268. Hires, Chas. E., Co., Philadelphia. Root beer in packages. I-M-5 73
269. Lammers, C. A., Denver, Col. Beer. G-M-6 73
270. Lemp Brewing Co., William J., St. Louis. Beer. G-M-9 73
For exhibit see page 493.
271. Liebmans', S., Sons Brewing Co., Brooklyn, N. Y. Lager beer. G-M-8 73
272. Mayer, David, Brewing Co., New York. Lager beer, ales. I-O-4 73
273. Moerlein, Christian, Brewing Co., Cincinnati. Lager beer. I-M-7 37
274. New Orleans Brewing Association, New Orleans. Beer. G-M-7 73
275. North Western Brewing Co., Chicago. Lager beer. I-M-8 73
276. Pabst Brewing Co., Milwaukee, Wis.
a Malt extract. G-M-10 72
b Beer. 73
For exhibit see page 625 to 628.
277. Peoria Malting Company, Peoria, Ill. Malt. I-M-4 72
278. Schlitz, Jos., Brewing Co., Milwaukee, Wis. Lager beer. I-H-5 73

DEPARTMENT A.—AGRICULTURE.

279. Smith, Robert, India Pale Ale Brewing Co., Philadelphia. G-M-8
 a Malt extract. 72
 b Ale, stout. 73
280. Stroh, B., Brewing Co., Detroit, Mich. Lager beer. G-M-6 73
281. Voigt Brewing Co., Detroit, Mich. Beer, nutrient malt. I-M-8 73
282. Voigt Brewery Company, The, Detroit, Mich. I-M-8
 a Extract of malt. 72
 b Beer. 73
283. Weidemann, Geo., Brewing Co., Newport, Ky. Beer. J-63 73
284. Weiss, Geo. A., Malting & Elevator Co., Chicago. Barley malt. G-M-7 72

GROUP 13.

Machinery, Processes and Appliances of Fermenting, Distilling, Bottling and Storing Beverages.

285. Barber, Joseph G., Brodhead, Wis. Farm gates. F. ex. 79
286. Behringer Malt Cleaning Machine Company, Lansing, Ill. Malt cleaning machine. E-A-1 76
287. Chicago Corrugated Shaving Company, Chicago. Beer and vinegar shavings; barley washer and conveyor. E-A-2 74
288. Crown Cork & Seal Co., Baltimore. Machinery for sealing bottles. E-A-2 77
289. German American Filter Company, New York. Beer filtering apparatus. E-A-1 76
290. Kaestner, Chas., & Co., Chicago. Malt mills. E-B-1 74
291. Kiefer, Karl, Cincinnati. Apparatus for filling bottles and barrels. E-A-2 77
292. Olsen & Tilgner, Chicago. Hydraulic mash machine and malt mill. E-C-1 74
293. Saladin Pneumatic Malting Construction Co., Chicago. Germinating compartment and malting grain. E-B-1 74
294. Stollstorff, August, Chicago. Revolving branding iron. E-R-11 77

GROUP 14.

Farms and Farm Buildings.

295. Allis, Elliot W., Adrian, Mich. Permanent and portable fence. F. ex. 79
296. Andre, T. J., Wauseon, Ohio. Fence and wire stretcher. F. ex. 79
297. Barnes Iron Fence Co., Philadelphia. Iron and steel fences. F. ex. 79
298. Bonnaffon, Albert L., Philadelphia. Steel fence. F. ex. 79
299. Buckley, C. E., Dover Plains, N. Y. Stable fittings. Live Stock Bldg. 82
300. Cornell, Geo. E., East Saginaw, Mich. Gate. F. ex. 79
301. Cochrane & Co., Ionia, Mich. Wire fence weaving machine. F. ex. 79
302. Crane, J. J., Summertown, Tenn. Metal fence post and hooks. F. ex. 79
303. Eureka Gate Co., Waterloo, Ia. Gates. F. ex. 79
304. Hack, Peter, Michigan City, Ind. Gate. F. ex. 79

305. Hunley, Harris & Co., Richmond, Ky. Hedge and wire fence. F. ex. 79
306. Jackson, George, Mapleton, Ind. Stable fittings. Live Stock Bldg. 82
307. Jones National Fence Co., Columbus, O. Wire fence. F. ex. 79
308. Mast, Foos & Co., Springfield, Ohio. Fencing. F. ex. 79
309. Taylor, Andrew W., Wayne, Neb. Gate and spike puller. F. ex. 79
310. Thompson, A. L., East Avon, N. Y. Tightener and fastener for wire fencing. F. ex. 79

GROUP 16.

Farming Tools, Implements and Machinery.

311. Aermotor Company, Chicago. Wind mills, feed grinders and cutters. W. ex. 88
312. Adrians, Platt & Co., Poughkeepsie, N. Y. Binder, reaper, mowers and dropper. E-N-8 86
313. Aldrich, Wm. H., Logansport, Ind. Wind engines. W. ex. 88
314. Allen, S. L., & Co., Philadelphia. Drills, plows, cultivators, hillers and diggers. E-N-10 84
315. Althouse Wheeler Company, Wau-pun, Wis. Wind and grinding mills. N. ex. 88
316. American Chemical Co., Minneapolis, Minn. Car cleaner. F-J-4 86
317. American Harrow Company, Detroit, Mich. E-P-8
 a Harrow, cultivator, seeder and plow. 84
 b Stalk cutter and bean harvester. 88
318. American Tillage Company, New York. Steam plow and seeder. T. E. ex. 84
319. American Well Works, Aurora, Ill. Windmill, pumps. W. ex. 88
320. Ann Arbor Agricultural Company, Ann Arbor, Mich. E-P-5
 a Hay press. 87
 b Hay cutters, horse power and jack. 88
321. Appleton Manufacturing Company, Appleton, Wis. E-C-4
 a Seeder. 85
 b Corn shellers. 87
 c Feed cutters, etc. 88
322. Aspinwall Manufacturing Company, Jackson, Mich. Potato planters, cutters and digger; drill. E-P-10 85
323. Astor, John Jacob, New York. Road improver. E-E-10 89
324. Aultman & Taylor Machinery Co., Mansfield, Ohio. E-A-9
 a Straw stacker. 86
 b Threshing machines. 87
 c Traction engine. 89
325. Avery, B. F., & Sons, Louisville, Ky. a Plows and Cultivators. E-H-11 84
 b Planters, etc. 85
326. Avery Planter Company, Peoria, Ill. a Cultivators. E-K-11 84
 b Planter and check rower; drill. 85
327. Avery & Rouse Steam Thresher Co., Peoria, Ill. E-C-11
 a Separator. 87
 b Traction engine. 89

UNITED STATES.

328. Austin, F. C., Manufacturing Company, Chicago. Steam generator, feed mills and rock drill. E-E-11 88
329. Baker Manufacturing Company, Evansville, Wis. Wind mills. W. ex. 88
330. Barlow Corn Planter Co., Quincy, Ill. Corn planters. E-M-1 85
331. Bateman, E. S. & F., Greenloch, N. J. E-O-1
a Cultivators and plows. 84
b Drills. 85
332. Bayless, Frank, Wilberforce, Ohio. Corn planter. E-E-9 85
333. Belle City Manufacturing Company, Racine, Wis. E-P-5
a Threshing machine. 87
b Horse powers and feed cutters. 88
334. Bender, John O., & Co., Fayetteville, N. Y. Transplanting machine. E-R-11 85
335. Benster, Olin W., Toledo, Ohio. Wind engine. W. ex. 88
336. Bickford & Huffman Co., Macedon, N. Y. Fertilizer grain drill. E-P-3 85
337. Birdsall Company, Auburn, N. Y. *a* Thresher and separator. E-B-11 87
b Traction engine. 89
338. Birdsall Co., Auburn, N. Y. *a* Thresher. E-A-8 87
b Traction engine. 89
339. Birdsell Manufacturing Company, South Bend, Ind. Clover hullers. E-B-11 87
 Bend, Ind. Plows. E-P-11 84
340. Bissell Chilled Plow Works, South Bend, Ind. Plows. E-P-11 84
341. Bowman & Allen, Dayton, Ohio. Tobacco hiller. E-R-6 84
342. Bowsher, D. J., & Sons, Cadillac, Mich. Combination planter. E-M-11 85
343. Bowsher, N. P., South Bend, Ind. Feed mills. E-E-4 88
344. Boyle & Calleton, Grand Rapids, Mich. Portable engine. South of Annex. 88
345. Bradley, David, Manufacturing Company, Chicago. E-J-10
a Plows, cultivators and harrows. 86
b Stalk cutters. 88
 For exhibit see page 633.
346. Brennan & Co., Louisville, Ky. E-N-4
a Grain drill, spring hoe, drill and fertilizer. 85
b Cane mill and evaporator. 88
347. Brook Lawn Farm Company, Esopus, N. Y. Fruit press. E-E-3 87
348. Buchanan, Jos. W., Indianapolis, Ind. Plows. E-L-11 84
349. Butterworth, Robert, Chicago. Cider presses. E-E-4 88
350. Cardwell Machine Company, Richmond, Va. E-O-1
a Corn planter and attachment. 85
b threshers; baling press; tobacco moulds; peanut picker, etc. 87
c Feed cutters. 88
351. Cascaden, Thomas, Waterloo, Iowa. Farm kettles and feed grinders. E-C-2 88
352. Challenge Windmill & Feedmill Co., Batavia, Ill. Windmills, tanks, feed grinders, corn shellers, etc. W. ex. 88
353. Champion Drill Company, Avon, N. Y. Grain and fertilizer drills. E-N-2 85
354. Chanler, John A., New York. Method of constructing roads. Road ex. 89
355. Chattanooga Plow Company, Chattanooga, Tenn. Plows. E-E-11 84
356. Climax Road Machine Company, Marathon, N. Y. Road machine. Road ex. 89
357. Clipper Chilled Plow Company, Elmira, N. Y. E-O-11
a Plows, harrows and cultivators. 84
b Hay rake. 86
358. Coates, A. W., Company, Alliance, Ohio. Hay rakes. E-E-5 86
359. Cole Bros. Prong Plow Co., Greencastle, Ind. Prong plow. E-L-11 84
360. Collins Plow Co. E-R-10
a Plows and cultivators. 84
b Baling presses. 87
361. Columbian Cordage Company, Auburn, N. Y. Binding twine. E-R-2 86
362. Common Sense Engine Company, Muncie, Ind. E-P-6
a Corn planters and check rowers. 85
b Grinding mill and upright engine. 88
363. Connor, Charles K., New Philadelphia, Ill. Corn harvester. E-N-3 86
364. Crane Machine Company, Baltimore. *a* Combined roller, drill and harrow. E-P-7 84
365. Craver & Steele Mfg. Co., Harvey, Ill. *a* Grain header. E-E-5 86
b Grain drill and pea planter. 85
366. Crown Point Manufacturing Company, Crown Point, Ind. Feed mill and horse power. E-A-3 88
367. Cutaway Harrow Company, Higganum, Conn. E-R-10
a Harrows, plows and cultivators. 84
b Root cutter, tool grinder, etc. 88
368. Davenport, Joseph P., Downers Grove, Ill. Potato planter. E-E-10 84
369. Dayton Farm Implement Company, Dayton, O. Harrows and combined harrow and seeder. E-R-11 84
370. Decorah Windmill Co., Decorah, Ia. Windmills. W. ex. 88
371. Dederick, P. K. & Co., Albany, N. Y. Mounted engine. E-R-4 88
372. Deere & Mansur Co., Moline, Ill. *a* Planters, drills, etc. E-G-10 85
b Hay loader. 86
373. Deere & Co., Moline, Ill. Plows and cultivators. E-I-11 84
374. Deering, Wm., & Co., Chicago. Harvesting machinery. E-1-6-7 86
375. Derby & Ball, Bellows Falls, Vt. Scythe spaths. E-A-6 86
376. Deuscher, H. P., Company, Hamilton, Ohio. E-R-10
a Harrows and pulverizers. 84
b Corn planters. 85
377. Dowagiac Manufacturing Company, Dowagiac, Mich. Grain drills. E-N-6 85
378. Dowden Manufacturing Company, Prairie City, Ia. Potato harvester and cutter. E-P-9 84
379. Eclipse Corn Planter Co., Enfield, N. H. Corn planter and fertilizer distributor. E-R-11 85
380. Eclipse Manufacturing Company, Middlebury, Conn. Grain and seed separator and grader. E-P-10 87

DEPARTMENT A—AGRICULTURE.

381. Eclipse Wind Engine Company, Beloit, Wis. Windmill. W. ex. 88
For exhibit see page 769.
382. Elliott, Wm. S. G., & Son, Walden, N. Y. Mowing machine. E-M-1 86
383. Emerson, Talcott & Co., Rockford, Ill. Mowers, tedders, rakes. E-G-7 86
384. Empire Drill Co., Shortsville, N. Y. Grain drills, plaster sower. E-N-5 85
385. Engelberg Huller Company, Syracuse, N. Y. Rice and coffee huller. E-C-5 87
386. Eureka Mower Company, Utica, N. Y. E-E-3 84
a Mower. 84
b Harrow and cultivator. 86
387. Everitt, James A., Indianapolis, Ind. a Cultivator and plow. E-E-9 84
b Seed drill. 85
389. Excelsior Harrow Company, Big Springs, Ohio. Harrow and pulverizer. E-E-10 84
390. Famous Manufacturing Company, Chicago. Baling presses. E-P-3 86
391. Farmers' Friend Manufacturing Company, Dayton, Ohio. E-P-3 84
a Harrow. 84
b Drills, corn planters and check rower. 85
c Hay rake and loader; mower. 86
392. Farquhar, A. B., & Co., York, Pa. E-E-3 84
a Plows, harrows and cultivators. 84
b Corn planter and grain drill. 85
c Rake separator. 86
d Thrasher and vibrator. 87
e Corn sheller; portable engine. 88
393. Field, J. A., Manufacturing Company, St. Louis. a Fruit evaporator, corn shellers, feed cutters, etc. E-G-5 87
b Sugar and feed mills. 88
394. Flint & Walling Manufacturing Co., Kendallville, Ind. Windmills and attachments. W. ex. 88
For exhibit see page 444.
395. Fogle, H. C., & Co., Stillwater, Minn. Mower. E-E-8 86
396. Foos Mfg. Co., Springfield, Ohio. a Corn planters. E-A-4 85
b Corn harvesters. 86
c Corn shellers. 87
d Farm mills and grinders. 88
397. Freeman, S., & Sons Manufacturing Co., Racine, Wis. E-A-6 85
a Broad cast seed sower. 85
b Fanning mills and feed cutters. 88
398. Fuller & Johnson Manufacturing Co., Madison, Wis. E-O-11 84
a Plows and cultivator. 84
b Corn planter, check rower and transplanting machine. 85
399. Gale Mfg. Co., Albion, Mich. Tillage implements. E-F-11 84
400. Gaar, Scott & Co., Richmond, Ind. a Thresher. E-A-11 87
b Traction engine. 89
401. Geiser Manufacturing Company, Waynesboro, Pa. E-C-10 87
a Thresher, separator and cleaner. 87
b Traction engine. 89
402. Genesee Valley Manufacturing Company, Mt. Morris, N. Y. E-N-2 84
a Land rollers. 84
b Drill. 85
c Corn shellers. 88
403. Gillette Clipping Machine Co., New York. Horse clipping and sheep shearing machines. E-C-5 88
404. Globe Windmill Co., West Pullman, Ill. Windmill. W. ex. 88
405. Grand Detour Plow Company, Dixon, Ill. Plows, harrows and cultivators. E-G-10 84
406. Gray's, A. W., Sons, Middletown Springs, Vt. Thresher, separator and cleaner. E-R-11 88
407. Hall Mowing Machine Company, Portland, Me. Mowing machines. E-M-1 86
408. Hancock Rotary Plow Co., Indianapolis, Ind. Rotary plows. E-A-5 84
409. Haworth & Sons, Decatur, Ill. Corn planter, check rower. E-E-4 85
410. Hayes Pump & Planter Co., Galva, Ill. Corn planters, drill and shoveling boards. E-R-7 85
411. Heebner & Sons, Lansdale, Pa. E-R-4 87
a Threshers and cleaners. 87
b Feed mill and cutters with crushers. 88
412. Heller, Aller, & Co., Napoleon, O. Wind engines. W. ex. 88
413. Hendricks, D. B., Kingston, N. Y. Baling presses. E-R-2 87
414. Higbie, Nathaniel B., Chicago. Oats cleaner. E-R-6 87
415. Hoekstra, S. J., Sheboygan, Wis. Horse power. E-R-11 84
416. Hoover & Prout, Avery, Ohio. a Potato digger. E-P-9 86
b Potato sorter and sprouter. 87
417. Huber Manufacturing Company, Marion, Ohio. E-A-7 87
a Thresher. 87
b Traction engine. 89
418. Hydraulic Press Manufacturing Company, Mt. Gilead, Ohio. Hydraulic power presses. E-C-2 87
419. Iwan Bros., Streator, Ill. Drain and tile cleaners and post-hole augers. E-R-11 88
420. Jacoby, T. C., Windmill Co., Moberly, Mo. Windmill. W. ex. 88
421. Johnson & Field Co., Racine, Wis. a Broadcast seeder. E-A-6 85
b Fanning and cleaning mills. 87
422. Johnston Harvester Company, Batavia, N. Y. E-G-8 84
a Pulverizers and cultivators. 84
b Harvester and binder, reaper and mowers. 86
423. Joliet Manufacturing Company, Joliet, Ill. Corn shellers. E-E-4 87
424. Joliet Strowbridge Company, Joliet, Ill. E-R-19 85
a Grain seeders. 85
b Feed grinders. 88
425. Kaestner, Chas. & Co., Chicago. Grist and feed mills. E-B-1 88
426. Kappe, W. J. H., Quincy, Ill. Hay baling presses. E-R-11 87
427. Kemp & Burpee Mfg. Co., Syracuse, N. Y. Manure spreader. E-A-4 84

UNITED STATES.

428. Kent, Arthur C., Janesville, Wis.
Corn planters. E-R-7 85
429. Keystone Manufacturing Company,
Sterling, Ill. E-N-7
- a* Harrow. 84
b Sower and planter. 85
c Hay loader and rake. 86
d Corn shellers, huskers and harvest-
ers. 88
430. Kinnard Press Company, Minneap-
olis, Minn. Hay press. E-R-6 87
431. Kring Bros., Westerville, Ohio.
Stump and rock extractor. W. ex. 88
432. La Crosse Plow Works, La Crosse,
Wis. Harrows and plows. E-L-11 84
433. Lawrie, John, Brookston, Ind. Cul-
ticator. E-E-9 84
434. Lean, R., & Son, Mansfield, Ohio.
Harrows. E-Q-11 84
435. Macleod, Malcolm, Los Angeles, Cal.
Cultivator, rake and roller. E-R-9 84
436. Manchester Mfg Co., Denver, Col.
Hay press. E-P-4 87
437. Mast, Foos & Co., Springfield, Ohio.
Wind engine and pumps. W. ex. 88
438. Mast, P. P., & Co., Springfield, Ohio.
a Cultivator. E-N-7 84
b Grain drills; seeders. 85
c Hay rakes. 86
439. May Bros., Galesburg, Ill. Wind-
mill. W. ex. 88
440. McCallum, J., Manufacturing Com-
pany, Chicago. Potato digger, picker and
loader. E-E-10 86
441. McCormick Harvesting Machine Co.,
Chicago. Binders, reapers, mowers, drop-
pers, etc. E-J-5 86
442. McSherry Mfg. Co., Dayton, Ohio.
a Harrow. E-N-2 84
b Fertilizer drills. 85
443. Messinger, S. S., & Son, Tatamy, Pa.
E-N-2
- a* Thresher, separator and stacker. 87
b Corn sheller, feed cutter, land roller. 88
444. Meyer, F. E., & Bro., Ashland, Ohio.
Hay, tools and machinery E-L-10 28
445. Midland Mfg. Co., Kansas City, Mo.
Hay press. E-R-3 87
446. Miller, Aultman & Co., Akron, Ohio.
Binders and mowers. E-I-9 86
447. Milwaukee Harvester Company, Mil-
waukee, Wis. Harvester and binder,
mowers. E-E-6 86
448. Minneapolis Esterly Harvester Com-
pany, Minneapolis, Minn. Harvesters
and mowers. E-N-8 86
449. Minneapolis Threshing Machine
Company, Minneapolis, Minn. E-C-11
- a* Threshing machine, band cutter and
feeder and grain measurer and bag-
ger. 87
b Traction engines. 89
450. Moline Plow Company, Moline, Ill.
a Plows and cultivators. E-C-11 84
b Corn planter. 85
- For exhibit see page 634.
451. Morgan, D. S., & Co., Brockport,
N. Y. E-N-3
- a* Harrows and hoes. 84
b Reaper, mower and binder, hay
rake. 86
452. Morrison Manufacturing Company,
Fort Madison, Iowa. Plows, cultivators,
listers and harrows. E-R-11 84
453. Moulton, Edward C., San Francisco.
Pea sheller E-A-3 87
454. Murphy, John, Columbus, Ohio. Brick
pavement. South of Annex. 89
455. Nash, D. H., Millington, N. J. Har-
row, clod crusher and leveler. E-E-10 84
456. Niles & Scott Co., LaPorte, Ind.
Implement wheels. E-A-6 86
457. Nordyke & Marmon Co., Indianapolis,
Ind. Mills and shellers. E-P-2 88
458. Nye, Sherman R., Chicopee Falls,
Mass. Horse rake. E-R-11 86
459. O'Hara, John H., Chicago. E-G-7
- a* Corn planter and harvester. 85
b Reaper and binder, hay rake and
tedder. 85
c Traction engine. 89
460. Oliver Chilled Plow Works, South
Bend, Ind. Plows and cultivators.
E-J-11 84
461. Osborne, D. M., & Co., Auburn, N. Y.
a Harrows. E-J-8 84
b Mowers, harvesters, binders, hay
rakes and tedders. 86
462. Owens, J. L., & Co., Minneapolis,
Minn. Fanning mills. E-P-3 87
463. Parrish, Heber, Morrison, Ill. Grain
separator and cleaner. E-A-6 87
464. Patch, Asahel H., Clarksville, Tenn.
Hand corn sheller. E-E-10 87
465. Pease, E. H., Manufacturing Com-
pany, Racine, Wis. Grain separator, oat
clipper and fanning mills. E-C-6 88
466. Perkins, H. H., Manufacturing Com-
pany, Kewanee, Ill. E-R-11
- a* Corn planter. 85
b Corn husker. 86
467. Perry, Judson D., Detroit, Mich.
Plow, pulverizer and potato digger.
E-E-10 84
468. Pirch, August, Los Angeles, Cal.
Irrigation and ditching plow. E-L-11 84
469. Plano Manufacturing Company, Chi-
cago. Binder, header and mowers.
E-E-8 86
470. Pope, John L., Cleveland, Ohio. Pavement.
E-R-11 89
471. Porter, E. A., & Bro., Bowling
Green, Ky. Feed cutter and feed crusher.
E-N-11 88
472. Porter, Jos. E., Ottawa, Ill. Hay
carriers. E-L-2 88
473. Potato Planter Co., Traverse City,
Mich. Potato planter. F-P-10 85
474. Price, L. J. & J. M., Macomb, Ill.
Syrup evaporator. E-A-6 88
475. Princess Plow Company, Canton,
Ohio. Plows. E-R-11 84
476. Quincy Baling Press Company,
Quincy, Ill. Baling press. E-R-2 87
477. Reed, John E., Los Angeles, Cal.
Rake roller-cultivator. E-L-11 85
478. Roberts, John H., Sacramento, Cal.
Traction engine. E-C-1 89
479. Roberts, Throp & Co., Three Rivers,
Mich. Threshers, shellers. E-B-11 87
480. Robinson & Co., Richmond, Ind.
a Thresher. E-A-10 87
b Stackers and band cutter. 88
c Traction engine. 89

DEPARTMENT A.—AGRICULTURE.

481. Ross, E. W., Company, Springfield, Ohio. Fodder, straw and cane cutters. E-E-6 88
482. Sandwich Enterprise Co., Sandwich, Ill. E-G-11
- a* Cultivators, harrows. 84
- b* Cotton planter. 85
- c* Corn slicer. 88
483. Sandwich Manufacturing Company, Sandwich, Ill. E-G-7
- a* Harvester. 86
- b* Corn sheller and baling press. 87
484. Sattley Manufacturing Company, Springfield, Ill. E-G-11
- a* Plows, cultivators and harrows. 84
- b* Straw stacker. 87
485. Schleicher, Schumm & Co., Philadelphia. Gasoline engine. I. E. ex. 88
486. Seiberling, J. F., & Co., Akron, Ohio. Harvesting machinery. E-L-8 86
487. Skandia Plow Company, Rockford, Ill. E-N-10
- a* Plows, cultivators and harrows. 84
- b* Corn planters and listers. 85
488. Slauson, Daniel, Fulton, N. Y. Iron gate. South of Annex. 88
489. Smalley Manufacturing Company, Manitowoc, Wis. Ensilage and feed cutting machinery. E-E-7 88
490. Smith, Oliver A., Clarkston, Mich. Land roller and spraying pump. E-R-3 88
491. Smith, W., & Co., Mystic, Iowa. Stump extractor. F. ex. 88
492. South Bend Chilled Plow Company, South Bend, Ind. Plows and cultivators. E-P-11 84
493. South Bend Stacker Co., South Bend, Ind. Straw stackers. E-C-9 86
494. Star Drill Co., Rushville, Ind. Grain and fertilizer drills. E-G-10 85
495. Sterling Manufacturing Company, Sterling, Ill. E-G-5
- a* Harrows. 84
- b* Seeder. 85
- c* Corn stalk cutter; feed grinder. 88
496. St. Johnsville Agricultural Works, St. Johnsville, N. Y. E-A-6
- a* Grain thresher. 87
- b* Portable engine and horse power. 88
497. St. Joseph Manufacturing Company, Mishawaka, Ind. Plows and cultivator. E-M-11 84
498. Steel Platform Binder Co., Kamms, Ohio. Harvester and binder. E-M-1 86
499. Stevens, A. W., & Son, Auburn, N. Y. E-A-8
- a* Threshing machine. 87
- b* Traction engine. 89
500. Stoddard Manufacturing Company, Dayton, Ohio. E-R-8
- a* Harrow. 84
- b* Drills. 85
- c* Hay rakes and mower. 86
501. Stover Mfg. Co., Freeport, Ill. Windmill. W. ex. 88
502. Straub, A. W., Philadelphia. Grinding mills. E-C-6 88
503. Superior Drill Company, Springfield, Ohio. E-R-7
- a* Grain and fertilizer drills. 85
- b* Hay carriers and forks. 86
504. Superior Land Roller Company, Geneva, N. Y. Field rollers. E-L-11 84
505. Syracuse Chilled Plow Works, Syracuse, N. Y. E-I-10
- a* Plows and cultivators. 84
- b* Hay forks. 86
506. Thomas Manufacturing Company, Springfield, Ohio. E-P-7
- a* Harrow. 84
- b* Hay rakes and tedders. 86
507. Tousley Harvester Company, Jamestown, N. Y. Harvester and binder. E-A-3 86
508. Tucker, Irett F., Sumner, Mich. Windmill. W. ex. 88
509. United States Wind Engine Company, Batavia, Ill. Windmills and feed and grinding mills. W. ex. 88
510. Union Iron Works Co., Newark, O. Traction engine. I. E. ex. 89
511. Valley Iron Works Co., Appleton, Wis. Feed-grinding mills. E-A-5 88
512. Ward, Montgomery, & Co., Chicago. E-R-6
- a* Hay stacking and carrying apparatus. 86
- b* Corn grinders and shellers and bone grinder. 88
513. Warder, Bushnell & Glessner Co., Chicago. Mower, reaper and harvester. E-L-7 86
514. Westinghouse Company, Schenectady, N. Y. E-A-11
- a* Threshers. 87
- b* Traction engine. 89
515. Whitley, Wm. N., Company, Springfield, Ohio.
- a* Harvester, binder and mower. 86
- b* Corn-cutting machine. 88
516. Whitfield, Thomas, Chicago. Oats cleaner. E-A-2 87
517. Whitman Agricultural Co., St. Louis.
- a* Tread horse power. E-N-5 84
- b* Drill and sower. 85
- c* Baling presses; corn shellers. 87
- d* Corn and cob mills. 88
518. Whitman & Barnes Manufacturing Co., Akron, Ohio. E-I-5
- a* Cultivators. 84
- b* Reaper and mower. 86
- c* Engine and boiler. 88
519. Wilms, Peter H., Holland, Mich. Land roller and harrow. E-R-7 84
520. Wilson Bros., Easton, Pa. Bone mill and cutter. E-A-5 88
521. Wood, Walter A., Mowing & Reaping Machine Co., Hoosick Falls, N. Y. Harvester, binder, bundle carriers, mowers and hay rakes. E-J-4 86

GROUP 17.

Miscellaneous Animal Products—Fertilizers and Fertilizing Compounds.

522. Armour & Co., Chicago.
- a* Gelatine and glue. D-A-1 90
- b* Hair. 91
- For exhibit see page 1000.
523. Crystal Gelatine Co., Boston. Gelatine. H-I-7 90
524. Grace, Wm. R., & Co., New York. Nitrates of soda, potash, etc. F-C-1 93
525. Janesville Bone Fertilizing Chemical Works, Janesville, Wis. Fertilizers, etc. F-G-1 92

UNITED STATES.

526. Knox, Chas. B., Johnstown, N. Y.
Gelatine. H-H-7 90
527. Mapes Formula & Peruvian Guano
Co. Fertilizers and chemicals. F-J-1 92
528. McLeish, E. E., & Co., Buffalo, N. Y.
Gelatine. H-H-7 90
529. Michigan Carbon Works, Detroit,
Mich.
a Glue. F-B-1 90
b Fertilizers, ammonia. 92
530. North Packing & Provision Co., Bos-
ton. Fertilizers. D-D-0 92
531. Swift and Company, Chicago.
F-E-1
a Glue, horns, hoofs and bone. 90
b Fertilizing material. 92
532. Wiedersheim, John A., Philadelphia.
Original letters patent for reaping and
mowing machines. Entrance to Annex. 93
- GROUP 18.**
Fats, Oils, Soaps, Candles, Etc.
533. American Copper, Brass & Iron
Works, Chicago. Brewers' supplies.
E-A-1 95
534. Armour & Co., Chicago.
a Butterine. D-A-1 94
b Stearine. 97
For exhibit see page 1000.
535. Baker Castor Oil Co., New York.
Castor oil. F-J-4 95
536. Balcom, P. A., Soap Company, Den-
ver, Col. Toilet soap. F-O-5 96
537. Baumer, Francis, Syracuse, N. Y.
Candles and beeswax. F-J-6 97
538. Columbia Cleansing Compound Com-
pany, Chicago. Cleansing compound.
F-H-1 96
539. Dall, Chas., Newburgh, N. Y. Cloth
renovator. F-K-4 96
540. Dreydoppel, Wm., Philadelphia.
Soaps. F-M-6 96
541. Ekermann & Will, Syracuse, N. Y.
Beeswax and candles. F-K-6 97
542. Electric Cleanser Company, Canton,
Ohio. Cleaning compound. F-M-8 96
543. Frazer Lubricator Co., Chicago.
Grease and oil. F-M-7 98
544. Goodrich, Edward E., El Quito, Cal.
Olive oil. H-J-5 95
545. Gross Bros., Milwaukee, Wis. Soap.
F-M-8 96
546. Hooper, Geo. F., Sonoma, Cal.
Olive oil. H-E-6 95
547. Johnson, Geo. T., Chicago. Eradi-
cator. F-K-4 96
548. Kendall Mfg. Co., Providence, R. I.
Soaps. F-M-6 96
549. Leonard & Ellis, Chicago. Lubricat-
ing oils. F-L-6 98
550. Miller, Wm. P., Company, Brooklyn,
N. Y. Lubricating compounds. F-D-1 98
551. National Linseed Oil Co., Chicago.
Oils oil cake and meal. C-A-0 95
552. Noonan, T. H., & Co., New York.
Clothes and glove cleaner. 96
553. North Packing & Provision Co., Bos-
ton. Lard. D-D-0 94
For exhibit see page 425.
554. Ostrom & Lincoln Co., Bridgeport,
Conn. Soaps and soap fixtures.
F-M-6 96
555. Parret, Francis R., & Co., Brooklyn,
N. Y. Eradicator. F-M-8 96
556. Scoville, E. U., Manlius, N. Y. Hay
fork pulleys. I-F-1 96
557. Selby, Ralph R., Ballard, Cal. Olive
oil. H-K-5 95
558. Smiths R. R. Axle Grease & Cooling
Compound Co., Baltimore. Axle grease
and cooling compound. F-H-1 98
559. Swift and Company, Chicago.
Butterine, lard and oils. H-F-4 94
560. Wallace, D. O., & Co., Chicago.
Furniture-cleaning compound. F-I-6 95
561. Ward, Everett, New York. Soaps
and soap powder. F-M-7 96
562. Werk, M., Co., Cincinnati. Glycer-
ine, candles, fatty acids. F-J-6 97
563. Wise Lubricating Co., Chicago.
Lubricating compounds. F-K-6 98
564. Wrigley Mfg. Co., Philadelphia.
Scouring soap. F-M-6 96

CALIFORNIA.

GROUP 1.

1. Adam, W. L., Santa Barbara. Barley. 4
2. Allen, B. F., Chico. Wheat. 1
3. Ayeris, E. W., Santa Ana Valley.
Oats in straw. 3
4. Barnes, E. W., Escondido. Corn. 2
5. Barnard, A. D., Santa Ana Valley.
Wheat in straw. 1
6. Bidwell, John, Chico. Wheat. 1
7. Blockman, L. E., Santa Maria. Wheat.
1
8. Borley, T. J., Santa Ana.
a Oats. 3
b Barley. 4
9. Branch, John, Artesia.
a Popcorn. 2
b Alfalfa. 9
10. Brockway, C. Z., Sacramento.
a Corn. 2
b Barley. 4
11. Brunson, James, Escondido. Wheat. 1
12. Bryant, William, Routiers. Wheat. 1
13. Byers, P. L., Santa Paula. Corn. 2
14. Carroll, Sacramento. Oats. 3
15. Clark, M. H., Upper Ojai. Wheat in
straw. 1
16. Clausen, F. J., Del Sur. Wheat. 1
17. Clausen, J. F., Lancaster. Wheat. 1
18. Cochems, Nicholas, Del Sur. Barley. 4
19. Coffman, Frank, Rivera. Corn. 2
20. Cook, George, Nellie. Wheat. 1
21. Coon, D., & N., Elk Grove. Oats. 3
22. Coovert, John, Lancaster. Wheat. 1

DEPARTMENT A.—AGRICULTURE.

23. Craigie, H. G., Gordon, Pasadena.	
Wheat.	1
24. Crow, J. M., Encinitas. Corn.	2
25. Darling, David, Saticoy. Corn.	2
26. Dryers, A. G., Saticoy. Corn.	2
27. Eddy, Amos, Compton. Alfalfa.	9
28. El Protrero Indians, Valley Center.	
Barley.	4
29. Fanita Ranch, El Cajon. Oats in	
straw.	3
30. Ferand, Jules, Santa Ana Valley.	
Barley.	4
31. Ferano, T., Ojai Valley. Barley in	
straw.	4
32. Flint, S. H., Saticoy. Barley.	4
33. Fredrichs, T. J., Conejo. Wheat.	1
34. Greer, Walter W., Sacramento.	
a Wheat.	1
b Barley.	4
35. Greer, E., Sacramento. Barley.	4
36. Hack, John, Union House. Wheat.	1
37. Hack, N. D., Freeport. Oats.	3
38. Hay, Anderson, Los Angeles. Maize.	8
39. Hockmeyer, A., Santa Ana. Corn.	2
40. Hule, C. A., Union House. Wheat.	1
41. Johnston, W. A., Norris Grant.	
Wheat.	1
42. Levy, A., Hueneme. Barley.	4
43. Luce, N., Lincoln.	
a Corn.	2
b Oats.	3
44. Maier & Zobelein, Los Angeles.	
Barley.	4
45. Makam, F., Santa Ana.	
a Oats.	3
b Barley.	4
46. McCabe, H. E., Lompoc. Barley.	4
47. McCoy, C. B., Simi. Oats.	3
48. Morehead, T. S., Lompoc. Barley.	4
49. Newport, William, Perris. Alfalfa.	9
50. Norton, Chas. W., Escondido.	
a Wheat.	1
b Corn.	2
51. Peabody, A. L., Nestor. Wheat in	
straw.	1
52. Phillips, A. H., Goleta. Corn.	2
53. Ralph, J. B., Colgrove. Maize.	8
54. Rambo, E. L., Twin Oaks. Corn.	2
55. Ramsaur, W. P., Florence. Alfalfa.	9
56. Rincon Indians, Valley Center.	
Wheat.	1
57. Rockwood, B. B., Escondido. Alfalfa.	9
58. Rosencrans, C., Los Angeles. Barley.	4
59. Rynerson, H. C., Ojai. Oats.	3
60. San Marcos Land Co., San Marcos.	
a Wheat.	1
b Oats.	3
61. Seeley, W. R., West Saticoy. Corn.	2
62. Sexton, Jos., Goleta.	
a Oats.	3
b Pampas grass.	8
63. Shafer, Nelson, Sacramento. Wheat.	1
64. Shippy, Senator, Nelson. Wheat.	1
65. Small, H. K., Olive. Wheat.	1
66. Smith, D. E., Hueneme. Barley.	4
67. Snow, I. F., Santa Ana. Corn.	2
68. Soper, P. W., Ojai Valley. Wheat in	
straw.	1
69. Sparks, E. J., Lincoln. Wheat.	1
70. Squire, E. W., Vista. Wheat.	1
71. Stevens, Louis, Santa Monica. Barley.	4
72. Stevenson, R., Otay. Wheat in straw.	1

73. Stocking Bros., Escondido.	
a Wheat.	1
b Corn.	2
74. Strong, Mrs. H. R. W., Whittier.	
a Corn.	2
b Pampas grass.	8
75. Studarus, Chas., Schoolhouse Station.	
Wheat.	1
75a. Suman, J. V., Colton.	
a Wheat.	1
b English corn.	2
c Barley.	4
d Rye.	5
e Alfalfa seed.	9
76. Van Nuys, I. N., Los Angeles. Wheat.	
Wheat in straw.	1
77. Waldron, S. A., Los Angeles. Wheat.	1
78. Walker, Lewis, Canada Larga.	
Wheat in straw.	1
79. White, E. A., Santa Ana. Corn.	2
80. White, Herbert, Rivera. Corn.	2
81. Wilson, C. N., San Fernando. Rye.	5

GROUP 3.

82. Albertz, F., Cloverdale. Grape sugar.	
	19
83. Barnett, A., Whittier. Honey.	26
84. Brodbeck, G. W., Los Angeles.	
Honey.	26
85. Burnett, Allen, Whittier. Honey.	26
86. Corey & Touchton, Santa Paula.	
Honey.	26
87. Hillier, H. H., Pasadena. Honey.	26
88. Mackey, R., Banning. Honey.	26
89. Martin, J. H., Redlands. Honey.	26
90. McIntyre, J. F., Fillmore. Honey.	26
91. Mellon, A. B., Action. Honey.	26
92. Mendenhall, T. W., Whittier.	
a Cane seed.	17
b Sorghum.	24
93. Rawley, L. T., Sunland. Honey.	26
94. Thomas, C. C., Winchester. Honey.	26
95. Trickey, F., Bishop. Honey.	26
96. Woodbury, G. B., Verdugo. Honey	
and beeswax.	26

GROUP 4.

97. Anderson, J. V., Westminster. Beets.	29
98. Atkinson, B., Los Angeles. Potatoes.	28
99. Bandle, E., Burbank. Potatoes.	28
100. Butler, J. M., Los Angeles. Potatoes.	28
101. Dare, C. B., El Cajon. Potatoes.	28
102. Draves, H. C., Harmony. Beets.	29
103. Elliott, E., Santa Barbara. Beets.	29
104. Enthwhistle, James, Cahuenga.	
Carrots.	30
105. Franklin, Gideon, Carpenteria. Pea-	
nuts.	31
106. Franzen, A., Orange. Potatoes.	28
107. Gibbs, I., Vernon. Beets.	29
108. Kline, A., Santa Ana. Carrots.	30
109. Lucock, T. J., Clear Water. Cab-	
bage.	30
110. Murdock, S. J., Westminster. Cab-	
bage.	30
111. Pine, William, Vernon. Peanuts.	31
112. Pruman, Daniel, Cahuenga. Beets.	29
113. Rutherford, Stephen. Naples.	
a Potatoes.	28
b Beets.	29
114. Strawbridge, W. T., Whittier.	
Potatoes.	28

UNITED STATES.

115. Thompson, Fred, Workman. Turnips. 30
 116. Thurmond, J. R., Carpenteria. Sweet potatoes and yams. 28
 117. White, A. E., Santa Ana. Turnips. 30
 118. White, E. A., Justin. Peanuts. 31
 119. Williams, Geo., Santa Barbara. Turnips and carrots. 30
 120. Wolf, John, Tropico. Beets. 29

GROUP 5.

121. Anderson, M. H., Santa Paula. Beans. 32
 122. Bacon, I. C., Capistrano. Beans. 32
 123. Baker, W. R., Pasadena. Squash. 32
 124. Bandle, E., Burbank. Beans. 32
 125. Beckwith, Chas. A., Santa Paula. Beans. 32
 126. Cummings, S. F., Santa Paula. Beans. 32
 127. Darling, David, Saticoy. Beans. 32
 128. Edmondson, R. B., Montalvo. Beans. 32
 129. Ellis, J. C., University. Beans. 32
 130. Faulkner, G. W., Santa Paula. Beans. 32
 131. Gibbs, I., Vernon. Beans. 32
 132. Gosnell, T. B., Avenue. Beans. 32
 133. Henderson, Mrs. G. L., Chula Vista. Melons. 32
 134. Hicks, C. H., Los Angeles. Beans. 32
 135. Jacobs, W. G., San Marco. Pumpkin, squash and melons. 32
 136. Kellogg, Frank, Goleta. Pumpkins. 32
 137. Kelsey, T. A., West Saticoy. Beans. 32
 138. Kelsey, T. B., Ventura. Beans. 32
 139. Levy, A., Anaheim. Beans. 32
 140. Lombardo, F., Montalvo. Beans. 32
 141. McGregor, Joseph, Lompoc. Cabbage. 32
 142. Price, A., Ventura. Beans. 32
 143. Ready, W. E., Ventura. Beans. 32
 144. Sexton, Jos., Goleta. Beans. 32

145. Silver, T., Montalvo. Beans. 32
 146. Stahl, N., Los Angeles. Squash. 32
 147. Stocking Bros., Escondido. Beans. 32
 148. Swan, Geo. C., El Cajon. Water-melons. 32
 149. Thompson, D. W., Ventura. Beans. 32
 150. Thorp, S. R., Gardena. Beans. 32
 151. True, N. A., Los Angeles. Pumpkins. 32
 152. Wheelan, F. H., Santa Barbara. Beans. 32
 153. Wolf & Lehman, Hueneme. Beans. 32

GROUP 8.

154. Broughton, W. W., Lompoc. Mustard. 47

GROUP 9.

155. Bailey, C. P., San Jose. Angora goat fleeces. 60
 156. Bishop, Miss C. M., Pasadena. Silk cocoons. 61
 157. Luce, N., Lincoln. Cotton on stalk. 53

GROUP 11.

158. Rossi, P. C., San Francisco. Vermouth. 70

GROUP 17.

159. Woodbridge, Baruch, Los Angeles. Fertilizer. 93

GROUP 18.

160. Closs, F., Auburn. Olive oil. 95
 161. Goodrich, E. C., Santa Clara. Olive oil. 95
 162. Hooper, Geo. W., Sobie Vista. Olive oil. 95
 163. Howland, J. L., Pomona. Olive oil. 95
 164. Roberson, Mrs. Emily, Auburn. Olive oil. 95
 165. Selby, Ralph R., Ballard. Olive oil. 95
 166. Smith, Juliet P., Livermore. Olive oil. 95

COLORADO.

GROUP 1.

1. Abbott, H. C., Las Animas. Wheat. 1
 2. Ackerman, F., Hygiene. Wheat. 1
 3. Adams, H. C., Las Animas. Wheat. 1
 4. Affelter, F., Longmont. Wheat. 1
 5. Affelter, Y., Longmont. Wheat. 1
 6. Agatito, Abeyta, Weston. Oats. 3
 7. Allen, C. W. Oats. 3
 8. Atman, C., Denver. Corn. 2
 9. Ayres, H. T., Durango. Oats. 3
 10. Babcock, L. W., Trinidad. Oats. 3
 11. Ballings, David, Highland Lake. Oats. 3
 12. Bashor, J. D., Hygiene. Wheat. 1
 13. Beasley, J. J., Longmont. Wheat. 1
 14. Bebbhardt, E., Sterling. Corn. 2
 15. Becklet, P., Longmont. Oats. 3
 16. Benhart, Fred., Sterling. Corn. 2
 17. Benson, N. E., Montrose. Wheat. 1
 18. Bent, A. D., Rocky Ford. Corn. 2

19. Bent, A. E., Lamar. Oats. 3
 20. Berry, F. M. Beulah.
 a Wheat. 1
 b Corn. 2
 c Barley. 4
 d Rye. 5
 e Buckwheat. 7
 f Millet. 8
 21. Berry, H., Beulah. Oats. 3
 22. Berry, Henry, Beulah.
 a Wheat. 1
 b Oats. 3
 c Barley. 4
 d Rye. 5
 23. Beshtalp, P., Ni Wot. Wheat. 1
 24. Bishop, A. J., Monument.
 a Oats. 3
 b Barley. 4
 25. Blake, Bros., Powell. Wheat. 1
 26. Brooks, L. T., Elizabeth. Oats. 3

DEPARTMENT A.—AGRICULTURE.

27. Brown, Peter, Greeley. Wheat.	1	70. Johnson, J. P., Grand Junction.	1
28. Burkdoll, H. E., Monte Vista. Wheat.	1	<i>a</i> Wheat.	3
29. Calkins, C. C., Longmont. Wheat.	1	<i>b</i> Oats.	4
30. Campbell, L. M., Las Animas.	1	<i>c</i> Barley.	1
<i>a</i> Wheat.	4	71. Jones, C. B., Lamar. Wheat.	1
<i>b</i> Barley.	2	72. Jones, J. B., Montrose. Wheat.	1
31. Cobney, J., Sterling. Corn.	1	73. Jones, T. C., Lamar. Wheat.	1
32. Coe, J. P., Stonewall. Wheat.	1	74. Jensen, H. H., Grand Junction.	1
33. Colorado Agricultural College, Denver.	8	<i>a</i> Wheat.	3
<i>a</i> Grasses. (75 varieties.)	9	<i>b</i> Oats.	2
<i>b</i> Forage plants. (28 varieties.)	8	75. Johnson, G., Sterling. Corn.	2
34. Colorado State Commission.	9	76. Kain, J. S., Rocky Ford. Corn.	1
<i>a</i> Grasses. (60 varieties.)	1	77. Keifer, L., Fruita. Wheat.	1
<i>b</i> Forage plants. (20 varieties.)	3	78. Kelly, W. S., Montrose. Wheat.	1
35. Colorado V. Land Co., Monte Vista.	5	79. Kliffed, A. W., Beulah. Wheat.	1
Wheat.	3	80. Klott, J. R., Las Animas. Barley.	4
36. Crosley, J. H., Las Animas. Wheat.	1	81. Koen, F. B., Lamar.	3
37. Crowley, J. H., Rocky Ford.	2	<i>a</i> Oats.	4
<i>a</i> Wheat.	3	<i>b</i> Barley.	2
<i>b</i> Corn.	4	82. Laramie County, Colorado. Corn.	3
<i>c</i> Oats.	3	83. Leach, Frank, Grand Junction.	3
<i>d</i> Barley.	4	<i>a</i> Oats.	4
38. Cushin, A. C., Montrose. Oats.	3	<i>b</i> Barley.	1
39. Divide Station, Experiment.	1	84. Leathem, D., Lamar. Wheat.	1
<i>a</i> Wheat.	2	85. Leonard, E. J., Montrose. Wheat.	1
<i>b</i> Corn.	5	86. Lewis, Robt., Monte Vista.	1
<i>c</i> Rye.	2	<i>a</i> Wheat.	3
40. Doepke, F. A., Castle Rock.	4	<i>b</i> Oats.	3
<i>a</i> Corn.	3	87. Lynch, P. S., Lamar. Oats.	3
<i>b</i> Oats.	4	88. Manning, Mrs., Rocky Ford. Oats.	3
<i>c</i> Barley.	5	89. McClelland, J. S., Fort Collins.	1
<i>d</i> Rye.	2	<i>a</i> Wheat.	3
41. Donaldson, Theo., Denver. Corn.	2	<i>b</i> Oats.	4
42. Donaldson, L., Denver. Corn.	2	<i>c</i> Barley.	1
43. Donohue, R. A., Sterling.	1	90. McConnell, J., Sterling. Wheat.	1
<i>a</i> Wheat.	3	91. McDonnell, Phil., Powell.	3
<i>b</i> Oats.	3	<i>a</i> Oats.	4
44. Dulmaine, J. E., Grand Junction.	1	<i>b</i> Barley.	1
Wheat.	1	92. McVay, C., Lamar.	1
45. Dulmane, J. E., Whitewater. Wheat.	1	<i>a</i> Wheat.	3
46. Dyer, W. A., Rocky Ford. Corn.	2	<i>b</i> Oats.	1
47. Eaton, G. W., Sterling. Corn.	2	93. McVay, F. M., Las Animas.	3
48. Elbert County, Colorado. Corn.	2	<i>a</i> Wheat.	1
49. Ellison, J. B., Grand Junction. Wheat.	1	<i>b</i> Oats.	3
50. El Paso County, Colorado. Corn.	2	<i>c</i> Barley.	4
51. Endsley, H. A., Montrose. Oats.	3	94. Meaker, James, Evans. Barley.	4
52. Eperson, J. H., Durango. Oats.	3	95. Marshall, J. B., Denver.	1
53. Fiffe, P., Sterling.	1	<i>a</i> Wheat.	3
<i>a</i> Wheat.	3	<i>b</i> Oats.	4
<i>b</i> Oats.	5	<i>c</i> Barley.	9
<i>c</i> Rye.	1	<i>d</i> Millet.	1
54. Gorden, E., Lamar. Wheat.	1	96. Miner, J. R., Windsor. Wheat.	1
55. Goss, J. W., Hygiene. Wheat.	1	97. Monells, P. B., Montrose.	1
56. Green, Chas., Sterling. Corn.	2	<i>a</i> Wheat.	3
57. Green, C. K., Sterling. Barley.	4	<i>b</i> Oats.	1
58. Green, O. C., Beulah. Corn.	2	98. Monnell, E. B., Montrose. Wheat.	1
59. Griffith, Rocky Ford. Wheat.	1	99. Moore, D. O., Montrose. Wheat.	1
60. Griswold, C., Sterling. Corn.	2	100. Moore, J. N., Montrose. Wheat.	1
61. Hamilton, H. W., Alamosa.	1	101. Moore, J. W., Montrose. Oats.	3
<i>a</i> Wheat.	3	102. Mye, S. H., Montrose. Oats.	1
<i>b</i> Oats.	4	103. Osborn, J., Montrose. Wheat.	1
<i>c</i> Barley.	1	104. Parashchak, M., Hygiene. Wheat.	1
62. Hensley, C., Durango. Wheat.	1	105. Parmeter, M. D., Lamar.	1
63. Hervison, H., Rocky Ford. Corn.	2	<i>a</i> Wheat.	3
64. Higgin, J. H., Plateau. Oats.	3	<i>b</i> Oats.	4
65. Hixon, N. R., Montrose. Oats.	3	<i>c</i> Barley.	5
66. Hooser, D. F., Rocky Ford. Oats.	3	<i>d</i> Rye.	1
67. Housel, P. M., Boulder. Wheat.	1	106. Parsons, A., Highland Lake.	3
68. Hyer, A. H., Rocky Ford. Corn.	2	<i>a</i> Oats.	4
69. Imes, J. B., Montrose. Wheat.	1	<i>b</i> Barley.	1
		107. Patterson, R. J., Sterling.	1
		<i>a</i> Wheat.	3
		<i>b</i> Oats.	4
		<i>c</i> Barley.	

UNITED STATES.

108.	Perkins, G. M., Hygiene.	Wheat.	1	145.	Tinon, S. R., Hill Top.		
109.	Pittsell, W. E., Sterling.	Wheat.	1		a Wheat.		1
110.	Pollock, S. R., Rocky Ford.	Oats.	3		b Corn.		2
111.	Pound, C. A., Monte Vista.				c Barley.		4
	a Wheat.		1	146.	Tracy, D. L., Ni Wot.	Wheat.	1
	b Oats.		3	147.	Travis, D. C., San Isabel.		
	c Barley.		4		a Wheat.		1
112.	Pound, C. S., Monte Vista.				b Oats.		3
	a Wheat.		1		c Barley.		4
	b Barley.		4	148.	Trew, C., Durago.	Oats.	3
113.	Ramsey, Allen, Greeley.			149.	Trew, E. S., Boulder.	Oats.	3
	a Wheat.		1	150.	Trew, R. S., Highland Lake.	Bar-	
	b Oats.		3		ley.		4
	c Barley.		4	151.	Vogel & Hoffman, Lamar.	Bar-	
	d Rye.		5		ley.		4
114.	Ramsey, J. M., Sterling.	Corn.	2	152.	Vorell, Ben, Monument.	Oats.	3
115.	Reves Bros., Evans.	Barley	4	153.	Walling, J. H., Whitewater.	Oats.	3
116.	Rivers, R. B., Montrose.	Oats.	3	154.	Walsh, W. H., Weston.	Oats.	3
117.	Roberts, D. C., Rocky Ford.			155.	Weston, S. H., Weston.	Wheat.	1
	Wheat.		1	156.	Wheatland, C. G., Sterling.	Corn.	2
118.	Royer, J. H., Sterling.	Corn.	2	157.	Williams Bros., Lamar.	Wheat.	1
119.	Russell, Mrs. R. D., Stonewall.			158.	Williams, J. D., Fruita.	Oats.	3
	Wheat.		1	159.	Wise Bros., Canfield.	Wheat.	1
120.	Schueman, F., Beulah.	Wheat.	1	160.	Wise, J. O. V., Canfield.	Wheat.	1
121.	Scofield, D. N., Canfield.	Wheat.	1	161.	Wycle, J. P., Rocky Ford.	Corn.	2
122.	Scofield, J. M., Canfield.	Wheat.	1	162.	Zitzell, M. E., Sterling.	Oats.	3
123.	Scofield, L. N., Ni Wot.	Wheat.	1	163.	Ziliner, W., Montrose.	Wheat.	1
124.	Sease, J. J., Beulah.	Oats.	3				
125.	Sellers, Frank, Beulah.	Oats.	3				
126.	Sherman, J. L., Sterling.	Corn.	2				
127.	Silthames, Geo., Sterling.	Wheat.	1				
128.	Sinter, E. F., Ft. Collins.	Barley.	4				
129.	Smith, J. B., Hygiene.	Wheat.	1				
130.	Smith, John, Sterling.	Corn.	2				
131.	Smos, Geo., Stanford.	Wheat.	1				
132.	Steel & Malone, Rocky Ford.						
	a Wheat.		1				
	b Corn.		2				
	c Oats.		3				
133.	Stevens, H. A., Longmont.	Wheat.	1				
134.	Stevens, H. S., Hygiene.	Wheat.	1				
135.	Stevens, J. D., Hill Top.	Millet.	8				
136.	Stevenson, Jesse, Lamar.	Wheat.	1				
137.	Stokes, S. C., Highland Lake.						
	Corn.		2				
138.	Story, Andrew, Stonewall.	Oats.	3				
139.	Stythers, H. A., Canfield.	Wheat.	1				
140.	Swinbeck, H., Monument.	Oats.	3				
141.	Sylvester & Son, Monte Vista.						
	a Wheat.		1				
	b Corn.		2				
142.	Taylor, G. W., Rocky Ford.	Corn.	2				
143.	Tetsell, N. P., Sterling.	Oats.	3				
144.	Thompson, J. W., Evans.	Rye.	5				

CONNECTICUT.

GROUP 8.

1. Abbe, A. C., South Windsor. Havana seed leaf tobacco. 48
2. Alford, H. W., Poquonock. Havana seed leaf tobacco. 48
3. Amstead, Joseph, Windsor Locks. Havana seed leaf tobacco. 48
4. Andross, A. B., South Windsor. Havana broad leaf tobacco. 48
5. Andross, J., East Hartford. Havana broad leaf tobacco. 48
6. Austin, C. L., West Suffield. Havana seed leaf tobacco. 48
7. Austin, Edward, Suffield. Havana seed leaf tobacco. 48
8. Austin, H. H., Suffield. Havana seed leaf tobacco. 48
9. Bancroft, George W., Hillstown. Havana broad leaf tobacco. 48
10. Bantle, Julius, Glastonbury. Havana seed leaf tobacco. 48
11. Barnard, Jay, Simsbury. Havana seed leaf tobacco. 48
12. Barnes, A. W., Poquonock. Havana seed leaf tobacco. 48
13. Barnes, G. W., Windsor. Havana seed leaf tobacco. 48
14. Bartlett, Joseph L., Simsbury. Havana seed leaf tobacco. 48
15. Bates & Stowell, East Granby. Havana seed leaf tobacco. 48
16. Bidwell, A. S., East Hartford. Havana broad leaf tobacco. 48
17. Brace, J. M. G., West Hartford. Havana broad leaf tobacco. 48
18. Bradley, James, South Windsor. Havana broad leaf tobacco. 48
19. Brown, Eugene, Poquonock. Havana seed leaf tobacco. 48
20. Brown, J. M., Poquonock. Havana seed leaf tobacco. 48
21. Burbank, W. E., Suffield. Havana seed leaf tobacco. 48
22. Butler, H., Weathersfield. Havana broad leaf tobacco. 48
23. Button, A. A., Suffield. Havana seed leaf tobacco. 48
24. Cadwell, Martin, Wethersfield. Havana broad leaf tobacco. 48
25. Carl, Jacob, Hatfield, Mass. Havana seed leaf tobacco. 48
26. Case, C. P., Simsbury. Havana seed leaf tobacco. 48
27. Case, D. C., West Suffield. Havana seed leaf tobacco. 48
28. Case, G. B., Canton. Havana seed leaf tobacco. 48
29. Case, R. D., Rainbow. Havana seed leaf tobacco. 48
30. Chidsey, C. H., Canton. Havana seed leaf tobacco. 48
31. Clark Bros., Poquonock. Havana seed leaf tobacco. 48
32. Clark, Charles O. C., Windsor. Havana seed leaf tobacco. 48
33. Clark, E. S., Windsor. Havana seed leaf tobacco. 48
34. Clark, E. S. & H., Hartford. Havana seed leaf tobacco. 48
35. Clark, L. P., Son, Poquonock. Havana seed leaf tobacco. 48
36. Codear, G. A., Canton. Havana seed leaf tobacco. 48
37. Copley, Horace G., West Suffield. Havana seed leaf tobacco. 48
38. Corcy, C. A., Suffield. Havana seed leaf tobacco. 48
39. Dickenson, E. D., Glastonbury. Havana broad leaf tobacco. 48
40. Dubon, J. A., Windsor. Havana seed leaf tobacco. 48
41. Dyer, D. F., Canton. Havana seed leaf tobacco. 48
42. Easton, A. J., Suffield. Havana seed leaf tobacco. 48
43. Eggert, Wm., & Co., Bloomfield. Havana seed leaf tobacco. 48
44. Ellsworth, H. H., Windsor. Havana seed leaf tobacco. 48
45. Ellsworth, L. S., Simsbury. Havana seed leaf tobacco. 48
46. Frisbie, M. W., Southington. Havana seed leaf tobacco. 48
47. Frye, H. S., Poquonock. Havana seed leaf tobacco. 48
48. Fuller, E. A. & W. F., Hartford. Havana broad leaf tobacco. 48
49. Fuller, Jerome E., Poquonock. Havana seed leaf tobacco. 48
50. Gilligan, J., West Suffield. Havana seed leaf tobacco. 48
51. Graves, A. N., Suffield. Havana seed leaf tobacco. 48
52. Griswold, C. A., West Hartford. Havana broad leaf tobacco. 48
53. Griswold, C. S., & Son, West Hartford. Havana broad leaf tobacco. 48
54. Griswold, H., & Son, Poquonock. Havana seed leaf tobacco. 48
55. Griswold, S. O., Poquonock. Havana seed leaf tobacco. 48
56. Haas, L. B., Hartford. Havana broad and seed leaf tobacco. 48
57. Hackett, Michael, Wapping. Havana seed leaf tobacco. 48
58. Hale, Edward, East Hartford. Havana broad leaf tobacco. 48
59. Halladay, Edward, Suffield. Havana seed leaf tobacco. 48
60. Hamilton, F. A., Warehouse Point. Havana seed leaf tobacco. 48
61. Hamlin, F. C., Southington. Havana seed leaf tobacco. 48
62. Haskins, Charles E., Suffield. Havana seed leaf tobacco. 48
63. Haskins, E. A. & H., Simsbury. Havana seed leaf tobacco. 48
64. Haskins, J. O., Suffield. Havana seed leaf tobacco. 48
65. Hathaway, H. L., Suffield. Havana seed leaf tobacco. 48
66. Hathaway, H. S., Suffield. Havana seed leaf tobacco. 48

UNITED STATES.

- | | |
|--|--|
| 67. Hathaway, T. B., Windsor. Havana seed leaf tobacco. 48 | 103. Rose, Henry M., West Suffield. Havana seed leaf tobacco. 48 |
| 68. Hay, John, & Co., Hartford. Havana seed leaf tobacco. 48 | 104. Rose, O. C., West Suffield. Havana seed leaf tobacco. 48 |
| 69. Helm, John, South Windsor. Havana broad leaf tobacco. 48 | 105. Rowe, Pat., East Hartford. Havana broad leaf tobacco. 48 |
| 70. Hemmenway, H. R. & E., Suffield. Havana seed leaf tobacco. 48 | 106. Scott, Fred A., Suffield. Havana seed leaf tobacco. 48 |
| 71. Higgins, S. A. D., Glastonbury. Havana broad leaf tobacco. 48 | 107. Scott, Hugh, Suffield. Havana seed leaf tobacco. 48 |
| 72. Holcomb, A. E., Poquonock. Havana seed leaf tobacco. 48 | 108. Sheldon, Chas. C., West Suffield. Havana seed leaf tobacco. 48 |
| 73. Holcomb, Norris, Bloomfield. Havana seed leaf tobacco. 48 | 109. Smith, Aaron, & Bro., Warehouse Point. Havana seed leaf tobacco. 48 |
| 74. Holman, Henry, South Windsor. Havana broad leaf tobacco. 48 | 110. Smith, D. J., Southington. Havana seed leaf tobacco. 48 |
| 75. House, A. H., Poquonock. Havana seed leaf tobacco. 48 | 111. Smith, James, Suffield. Havana seed leaf tobacco. 48 |
| 76. House & Griswold. Havana seed leaf tobacco. 48 | 112. Sission, Giles A., Canton. Havana seed leaf tobacco. 48 |
| 77. Hubbard, Wm. G., Bloomfield. Havana seed leaf tobacco. 48 | 113. Soper, W. A., Suffield. Havana seed leaf tobacco. 48 |
| 78. Humphrey, W. G., Canton. Havana seed leaf tobacco. 48 | 114. Spencer, Jerome P., Suffield. Havana seed leaf tobacco. 48 |
| 79. Hunting, W. L., East Hartford. Havana seed leaf tobacco. 48 | 115. Spencer, J. L., Suffield. Havana seed leaf tobacco. 48 |
| 80. Jones Bros., South Windsor. Havana broad and seed leaf tobacco. 48 | 116. Stevens, Samuel J., Glastonbury. Havana broad leaf tobacco. 48 |
| 81. Judson, E. A., East Hartford. Havana broad leaf tobacco. 48 | 117. Stiles, W. L., West Suffield. Havana seed leaf tobacco. 48 |
| 82. Kent, M. H., Suffield. Havana seed leaf tobacco. 48 | 118. St. John, Newton, Simsbury. Havana seed leaf tobacco. 48 |
| 83. King, Burton H., West Suffield. Havana seed leaf tobacco. 48 | 119. Sykes, Willard C., Suffield. Havana seed leaf tobacco. 48 |
| 84. King, Daniel J., Suffield. Havana seed leaf tobacco. 48 | 120. Talcott, C. H., Glastonbury. Havana broad leaf tobacco. 48 |
| 85. Knox, H. H., West Suffield. Havana seed leaf tobacco. 48 | 121. Talcott, Lucius, Glastonbury. Havana broad leaf tobacco. 48 |
| 86. Lamberton, W. J., Poquonock. Havana seed leaf tobacco. 48 | 122. Thrall Brothers, Windsor. Havana seed leaf tobacco. 48 |
| 87. Laughton, F. B. M., Bloomfield. Havana seed leaf tobacco. 48 | 123. Thrall, Edwin F., Windsor. Havana seed leaf tobacco. 48 |
| 88. Lothrop, H. J., Suffield. Havana seed leaf tobacco. 48 | 124. Thrall, H. H., Poquonock. Havana seed leaf tobacco. 48 |
| 89. Marcy, T. K., Windsor. Havana seed leaf tobacco. 48 | 125. Thrall, Willard, Poquonock. Havana seed leaf tobacco. 48 |
| 90. Merriman, J. H., Southington. Havana seed leaf tobacco. 48 | 126. Turner, B. F., Glastonbury. Havana broad leaf tobacco. 48 |
| 91. Morse, J. W., Southington. Havana seed leaf tobacco. 48 | 127. Udo, H., Suffield. Havana seed leaf tobacco. 48 |
| 92. Norton, G., Bristol. Havana seed leaf tobacco. 48 | 128. Viets, A. A., Bloomfield. Havana seed leaf tobacco. 48 |
| 93. Parker, J. P., Jr., Windsor. Havana seed leaf tobacco. 48 | 129. Warren, Francis N., West Suffield. Havana seed leaf tobacco. 48 |
| 94. Phelps, Clinton, East Granby. Havana seed leaf tobacco. 48 | 130. Warren, Fred, East Hartford. Havana seed leaf tobacco. 48 |
| 95. Phelps, E. N., Windsor. Havana seed leaf tobacco. 48 | 131. Warren, George L., West Suffield. Havana seed leaf tobacco. 48 |
| 96. Pinney, Wm. S., Suffield. Havana seed leaf tobacco. 48 | 132. Welles, Fred, Glastonbury. Havana broad leaf tobacco. 48 |
| 97. Pitcher & Phillips, Suffield. Havana seed leaf tobacco. 48 | 133. Welles, H. T., New Britain. Havana broad leaf tobacco. 48 |
| 98. Pomery, A., Suffield. Havana seed leaf tobacco. 48 | 134. Whaples, H., South Windsor. Havana broad leaf tobacco. 48 |
| 99. Pratt, L. C., Greenfield, Mass. Havana seed leaf tobacco. 48 | 135. White, E. N., Canton Centre. Havana seed leaf tobacco. 48 |
| 100. Remington, George L., Suffield. Havana seed leaf tobacco. 48 | 136. Woodford, C. R., Avon. Havana seed leaf tobacco. 48 |
| 101. Rhodes, C. A., Glastonbury. Havana seed leaf tobacco. 48 | 137. Wright, H. K., Suffield. Havana seed leaf tobacco. 48 |
| 102. Ripley, E. B., South Windsor. Havana seed leaf tobacco. 48 | 138. Zweygart, Henry J., Hartford. Havana broad leaf tobacco. 48 |

IDAHO.

GROUP 1.

1. Acon, Irvin, Genesee. Hay.	8	44. Newman, Thos., Weiser. Corn.	2
2. Adams, John, Albion. Wheat.	1	45. Nixon, Wm., Genesee. Wheat.	1
3. Akin, Edwin, Genesee. Wheat.	1	46. Olan, S., Idaho Falls. Wheat.	1
4. Anderson, J. H., Weiser. Corn.	2	47. Osborne, I. I., Hailey.	
5. Bast, J. H., Boise City. Wheat.	1	<i>a</i> Wheat.	1
6. Blackfoot Columbian Club, Blackfoot.		<i>b</i> Corn.	2
Oats.	3	48. Pedan, Martin, Leland. Wheat.	1
7. Brown, Chas., Liberty. Oats.	3	49. Percifield, S. M., Weiser. Wheat.	1
8. Bud Clark, Boise City. Corn.	2	50. Poe, James W., Lewiston. Corn.	2
9. Colson, James, Weiser. Wheat.	1	51. Potter, L. D., Caldwell. Hay and	
10. Daggett, Monroe, St. Maries. Tim-		wild oats.	8
othy hay and wild rye.	8	52. Reed, J. L., Bonner's Ferry. Grasses.	8
11. Davis, C., Salmon City. Timothy hay.	8	53. Roberts & Son, Albion.	
12. Denny, S. R., Weiser. Oats.	3	<i>a</i> Wheat.	1
13. Drake, D. D., Boise City. Oats.	3	<i>b</i> Barley.	4
14. Edmanson, W. H., Leland. Wheat.	1	<i>c</i> Rye.	5
15. Ferrel, W., St. Maries. Timothy		<i>d</i> Grasses.	8
hay.	8	<i>e</i> Alfalfa hay.	9
16. Fredrickson, Fredrick, Leland. Wheat		54. Rynearson, W. S., Weiser. Wheat.	1
in straw.	1	55. Saxon, John, Boise City.	
17. Gallagher, J. H., Boise City. Grasses		<i>a</i> Rice popcorn.	2
and hay.	8	<i>b</i> Rye in straw.	5
18. Garby, C., Leland. Wheat.	1	<i>c</i> Red top grass and timothy hay.	8
19. Gray, Eugene, St. Maries. Wheat.	1	<i>d</i> Alfalfa hay.	9
20. Groom, John F., Boise City. Hay.	8	56. Small, Ira, Lewiston. Wheat.	1
21. Haden, James G., Leland. Oats.	3	57. Smith, Geo., Lewiston.	
22. Hannah, V. D., Weiser.		<i>a</i> Wheat.	1
<i>a</i> Wheat.	1	<i>b</i> Barley.	4
<i>b</i> Corn.	2	58. Sonting, J., Lewiston. Grass.	8
<i>c</i> Oats.	3	59. Southwick, S R., Southwick. Orchard	
<i>d</i> Grasses.	8	grass.	8
22a. Hartinger, J., Leland. Wheat.	1	60. Specker, C., Leland. Rye in straw.	5
23. Hartinger, Wm., Lewiston. Wheat.	1	61. Stafford, Wm., Boise City. Oats.	3
23a. Heitfield, Henry, Uniontown.		62. Stewart, D. C., Montpelier. Wheat.	1
<i>a</i> Wheat.	1	63. Stranahan, C. T., Lewiston. Alfalfa	
<i>b</i> Rye.	5	hay.	9
<i>c</i> Hay.	8	64. Stroup, Jacob, Washoe.	
24. Hepler, John, Cameron. Wheat.	1	<i>a</i> Wheat.	1
25. Hoffman, C., Lewiston. Oats in straw.	3	<i>b</i> Oats.	3
26. Hortinger, W., Leland. Oats in straw.	3	<i>c</i> Hay.	8
27. Jackson, A. F., Weiser. Oats.	3	65. Swager, S. A., Weiser.	
28. Kingsbury & Sharp, Boise City.		<i>a</i> Wheat.	1
Wheat.	1	<i>b</i> Corn.	2
29. Landon, C., Leland. Oats in straw.	3	66. Swager, T. A., Weiser. Corn.	2
30. Lawn, Frank, Genesee. Wheat.	1	67. Thomas, A. T., Boise City.	
31. Layland, A. J., Thomas' Fork. Grasses		<i>a</i> Wheat and wheat in straw.	1
and timothy hay.	8	<i>b</i> Oats in straw.	3
32. Lee, O. S., Jr., Idaho Falls.		<i>c</i> Alfalfa.	9
<i>a</i> Wheat.	1	67a. Tollard, F. M., Salmon City.	
<i>b</i> Oats.	3	<i>a</i> Wheat.	1
33. Lee, O. S., Sr., Idaho Falls.		<i>b</i> Oats.	3
<i>a</i> Wheat.	1	68. Touk, Henry, Bonner's Ferry.	
<i>b</i> Clover and hay.	8	<i>a</i> Wheat.	1
34. Loring, John, Genesee. Wheat.	1	<i>b</i> Oats.	3
35. Loring, Theodore, Genesee. Barley.	4	68a. Tuttle, Robert, Weiser. Corn.	2
36. Lund, T. A., Weiser. Wheat.	1	69. Utey, J. R., Weiser. Wheat.	1
37. McCall, J., Leland. Wheat in straw.	1	70. Ward, M. L., Leland. Oats.	3
38. McFarland, Wm. H., Lewiston.		71. Welcher, George, Leland. Barley in	
Wheat in straw.	1	straw.	4
39. Maroy, Wm., Genesee. Wheat.	1	72. Welcher, Paul, Leland. Timothy hay.	8
40. Martin, J. H., Weiser. Barley.	4	73. White, A. K., St. Maries. Timothy	
41. Mickey, F. M., Weiser. Oats.	3	hay.	8
42. Morrison, J. H., Leland. Wheat.	1	74. White, A. T., Idaho Falls.	
43. Mosley, J., Boise City. Millet.	8	<i>a</i> Oats.	3
		<i>b</i> Grass.	8
		75. Wilson, Thos., Boise City. Oats.	3

UNITED STATES.

76.	Wright, W T., Leland.	Wheat.	1
77.	Worthington, C., Albion.	Wheat.	1
78.	Wyman, J., Leland.	Hay.	8
79.	Yergen, A. S., Boise City.	Hay.	8

GROUP 3.

80.	Boulding, A., Leland.	Sorghum.	24
81.	Clark, C., Leland.	Sorghum.	24
82.	McFarland, W. H., Lewiston.	Sorghum.	24
83.	Piper, J. W., Leland.	Sorghum.	24
84.	Stoddard, Samuel, Leland.	Sorghum.	24
85.	Wyncoop, John M., Lewiston.	Radishes.	30

GROUP 4.

86.	Ackroids, Walter, Bloomington.	Beets.	30
87.	Alred, Marvin, Paris.	Turnips.	30
88.	Bast, J. H., Boise City.	Potatoes.	28
89.	Dunn, J. P., Bonner's Ferry.	Turnips.	30
90.	Edmanson, W. H., Leland.	Potatoes.	28
91.	Fordyce, W. H., Lewiston.	Peanuts.	31
92.	Fry, R., Bonner's Ferry.	Beets and rutabagas.	30
93.	Lesser, Richard, Albion.	Potatoes.	28
94.	Loring, Theodore, Genesee.	Rutabaga, turnips and herbs.	30
95.	Lucas, F. M., Bonner's Ferry.	Potatoes.	28
96.	Parker, J., Lewiston.	Radishes.	30
97.	Porter & Wessels, Lewiston.	Sweet potatoes.	28
98.	Potter, L. D., Caldwell.	a Potatoes.	28
		b Parsnips.	30

99.	Stewart, D. C., Montpelier.	Potatoes.	28
100.	Stroup, Jacob, Washoe.	Potatoes.	28
101.	Worthington, C., Albion.	Potatoes.	28

GROUP 5.

102.	Boulding, A., Leland.	Garden seed.	32
103.	Church, Henry, Leland.	Tomatoes.	32
104.	Fordyce, W. H., Lewiston.	Peas and beans.	32
105.	Fry, R., Bonner's Ferry.	Cabbages.	32
106.	Hannah, V. D., Weiser.	Broom corn.	32
107.	Holt, F., Lewiston.	Broom corn.	32
108.	McGlottklin, T. W., Bonner's Ferry.	Squashes.	32
109.	Potter, L. D., Caldwell.	Tomatoes.	32
110.	Rykert, J. C., Bonner's Ferry.	Cabbages.	32
111.	Stroup, Jacob, Washoe.	Squashes and pumpkins.	32
112.	Swager, S. A., Weiser.	Broom corn.	32
113.	Walker, Geo. W., Cameron.	Beans.	32
114.	Wessels, H., Cameron.	Timothy seed.	32
115.	Wyman, J., Leland.	Garden seeds.	32

GROUP 8.

116.	Fordyce, W. H., Lewiston.	Leaf tobacco.	48
117.	Kausteur, J. H., Idaho Falls.	Hops.	46
118.	McGlottklin, T. W., Bonner's Ferry.	Hops.	46

GROUP 9.

119.	Lee, O. S. Jr., Idaho Falls.	Flax.	59
------	------------------------------	-------	----

GROUP 11.

120.	Boulding, A., Leland.	Vinegar.	71
------	-----------------------	----------	----

ILLINOIS.

GROUP 1.

1.	Banscher, Louis, Freeport.	Corn.	2
2.	Boatman, J. W., Carlinville.	Corn.	2
3.	Bone, F. E., Tallula.	a Wheat.	1
		b Corn.	2
		c Oats.	3
		d Barley.	4
		e Rye.	5
		f Buckwheat.	7
		g Grasses.	8
		h Forage plants.	9
4.	Boner, Joseph, Panola.	Corn.	2
5.	Brumback, David, Danforth.	a Wheat.	1
		b Corn.	2
		c Oats.	3
		d Barley.	4
		e Rye.	5
		f Buckwheat.	7
		g Grasses.	8
		h Forage plants.	9
6.	Burdick, W. A., Winnebago.	Corn.	2
7.	Burdick, J. L., Rockford.	a Wheat.	1
		b Corn.	2
		c Oats.	3
		d Rye.	5

	<i>e</i> Buckwheat.	7
	<i>f</i> Grasses.	8
	<i>g</i> Clover, etc.	9
8.	Burrows, Wm., Panola. Corn.	2
9.	Butler, J. J., Eldorado.	
	<i>a</i> Wheat.	1
	<i>b</i> Corn.	2
	<i>c</i> Oats.	3
	<i>d</i> Barley.	4
	<i>e</i> Rye.	5
	<i>f</i> Buckwheat.	7
	<i>g</i> Grasses.	8
	<i>h</i> Forage plants.	9
10.	Chester, T. P., Champaign.	
	<i>a</i> Wheat.	1
	<i>b</i> Corn.	2
	<i>c</i> Oats.	3
	<i>d</i> Barley.	4
	<i>e</i> Rye.	5
	<i>f</i> Buckwheat.	7
	<i>g</i> Grasses.	8
	<i>h</i> Forage plants.	9
11.	Childs, Edward, El Paso. Corn.	2
12.	Cline, W. M., Rockford. Corn.	2
13.	Coffin, Horace, Rockford.	
	<i>a</i> Corn.	2
	<i>b</i> Rye.	5
14.	Conlon, John, Taylor. Oats.	3
15.	Cribbins, Thos., El Paso. Corn.	2

DEPARTMENT A.—AGRICULTURE.

16. Crowell, L. H., Rockford.		35. Hodgson, Jesse, Panola. Corn.	2
<i>a</i> Corn.	2	36. Hooker, M. A., McLeansboro.	
<i>b</i> Buckwheat.	7	<i>a</i> Wheat.	1
<i>c</i> Grasses.	8	<i>b</i> Corn.	2
17. Cutler, A. E., Rockford. Corn.	2	<i>c</i> Oats.	3
18. De Freese, Nicholas, Panola. Corn.	2	<i>d</i> Rye.	5
19. Edmonds, H. P., Taylor.		<i>e</i> Buckwheat.	7
<i>a</i> Wheat.	1	<i>f</i> Grasses.	8
<i>b</i> Corn.	2	<i>g</i> Forage plants.	9
<i>c</i> Oats.	3	37. Hopps, H. A., Panola. Corn	2
<i>d</i> Barley.	4	38. Horner, George, Panola. Corn.	2
<i>e</i> Rye.	5	39. Hostetter, A. B., Mt. Carroll.	
<i>f</i> Buckwheat.	7	<i>a</i> Wheat.	1
<i>g</i> Grasses.	8	<i>b</i> Oats.	3
<i>h</i> Forage plants.	9	<i>c</i> Barley.	4
20. Edmonds, J. W., Lighthouse.		<i>d</i> Rye.	5
<i>a</i> Wheat.	1	<i>e</i> Grasses.	8
<i>b</i> Corn.	2	40. Hurd, Thos., El Paso. Corn.	2
<i>c</i> Grass.	8	41. Irving, J. N., Arcola. Oats.	3
21. Edmonds, Philip, El Paso. Corn.	2	42. Johns, Wm., Rockford. Corn.	2
22. Emright, Kim., El Paso. Corn.	2	43. Johnson, Andy, El Paso. Corn.	2
23. Ernest, A., & Co., Farmingdale.		44. Kimmel, W. G., Jonesboro.	
<i>a</i> Wheat.	1	<i>a</i> Wheat.	1
<i>b</i> Corn.	2	<i>b</i> Corn.	2
<i>c</i> Oats.	3	<i>c</i> Oats.	3
<i>d</i> Barley.	4	<i>d</i> Rye.	5
<i>e</i> Rye.	5	<i>e</i> Buckwheat.	7
<i>f</i> Buckwheat.	7	<i>f</i> Grasses.	8
<i>g</i> Grasses.	8	<i>g</i> Clover.	9
<i>h</i> Forage plants.	9	45. Klug, John, Panola. Corn.	2
24. Fraipont, Walter, Rockford. Corn.	2	46. Klug, William, Panola. Corn.	2
25. Fursman, E. S., El Paso.		47. Knox County Agricultural Board,	
<i>a</i> Wheat.	1	Knoxville.	
<i>b</i> Corn.	2	<i>a</i> Wheat.	1
<i>c</i> Oats.	3	<i>b</i> Corn.	2
<i>d</i> Barley.	4	<i>c</i> Oats.	3
<i>e</i> Rye.	5	<i>d</i> Rye.	5
<i>f</i> Buckwheat.	7	<i>e</i> Buckwheat.	7
<i>g</i> Grasses.	8	<i>f</i> Grasses.	8
<i>h</i> Forage plants.	9	<i>g</i> Clover.	9
26. Gardiner, June, Rockford. Corn.	2	48. Krow, Jas., Woodstock. Corn.	2
27. Graham, Geo. W., Carbondale.		49. La Rosh, S. D., Pekin.	
Wheat.	1	<i>a</i> Wheat.	1
28. Gurbrick, William, El Paso. Corn.	2	<i>b</i> Corn.	2
29. Haas, Jos., El Paso. Corn.	2	<i>c</i> Oats.	3
30. Hay, Leon, Kankakee.		<i>d</i> Barley.	4
<i>a</i> Wheat.	1	<i>e</i> Rye.	5
<i>b</i> Corn.	2	<i>f</i> Buckwheat.	7
<i>c</i> Oats.	3	<i>g</i> Grasses.	8
<i>d</i> Rye.	5	<i>h</i> Forage plants.	9
<i>e</i> Buckwheat.	7	50. McHenry County Agricultural Board,	
<i>f</i> Grasses.	8	Woodstock. Corn.	2
<i>g</i> Forage plants.	9	51. McHenry, J. W., Carmi.	
31. Helms & Ripley, Belleville.		<i>a</i> Wheat.	1
<i>a</i> Wheat.	1	<i>b</i> Corn.	2
<i>b</i> Corn.	2	<i>c</i> Oats.	3
<i>c</i> Oats.	3	<i>d</i> Rye.	5
<i>d</i> Barley.	4	<i>e</i> Forage plants.	9
<i>e</i> Rye.	5	52. McOmber, H. L., El Paso. Corn.	2
<i>f</i> Buckwheat.	7	53. March, F. W., Daysville. Corn.	2
<i>g</i> Grasses.	8	54. Massac County Fruit Growers' Ass'n,	
<i>h</i> Forage plants.	9	Metropolis.	
32. Herr, Mart., Panola. Corn.	2	<i>a</i> Wheat.	1
33. Hill, Daniel, El Paso. Corn.	2	<i>b</i> Corn.	2
34. Hodge, W. H., Morris.		<i>c</i> Oats.	3
<i>a</i> Wheat.	1	<i>d</i> Rye.	5
<i>b</i> Corn.	2	<i>e</i> Buckwheat.	7
<i>c</i> Oats.	3	<i>f</i> Grasses.	8
<i>d</i> Barley.	4	<i>g</i> Forage plants.	9
<i>e</i> Rye.	5	55. Millard, Benjamin, Rockford.	
<i>f</i> Buckwheat.	7	<i>a</i> Wheat.	1
<i>g</i> Grasses.	8	<i>b</i> Oats.	3
<i>h</i> Forage plants.	9	56. Miller, C. E., Panola. Corn.	2

UNITED STATES.

57.	Murray, Ed., Daysville.	Corn.	1
58.	Nash, J. E., Princeton.		
	<i>a</i> Wheat.		1
	<i>b</i> Corn.		2
	<i>c</i> Oats.		3
	<i>d</i> Barley.		4
	<i>e</i> Rye.		5
	<i>f</i> Buckwheat.		7
	<i>g</i> Grasses.		8
	<i>h</i> Forage plants.		9
59.	Neeper, A., Kinmundy.		
	<i>a</i> Wheat.		1
	<i>b</i> Corn.		2
	<i>c</i> Oats.		3
	<i>d</i> Rye.		5
	<i>e</i> Buckwheat.		7
	<i>f</i> Grasses.		8
	<i>g</i> Forage plants.		9
60.	Nethercott, Robert, El Paso.	Corn.	2
61.	Patton, John, Panola.	Corn.	2
62.	Pinkham, George, Panola.	Corn.	2
63.	Pierpont, Theron, Rockford.	Corn.	2
64.	Pleasant, James, El Paso.	Corn.	2
65.	Rice, Wm., Rockford.	Grasses.	8
66.	Russell, A. E., Shattuc.		
	<i>a</i> Wheat.		1
	<i>b</i> Corn.		2
	<i>c</i> Oats.		3
	<i>d</i> Rye.		5
	<i>e</i> Buckwheat.		7
	<i>f</i> Grasses.		8
	<i>g</i> Forage plants.		9
67.	Sawyer, W. J., Belvidere.		
	<i>a</i> Corn.		2
	<i>b</i> Grass.		8
68.	Schofield, John, El Paso.	Corn.	2
69.	Seiler, J. E., Mt. Carmel.		
	<i>a</i> Wheat.		1
	<i>b</i> Corn.		2
	<i>c</i> Oats.		3
	<i>d</i> Rye.		5
	<i>e</i> Grasses.		8
	<i>f</i> Forage plants.		9
70.	Shedden, Robert, Pingree Grove.		
	<i>a</i> Wheat.		1
	<i>b</i> Corn.		2
	<i>c</i> Oats.		3
	<i>d</i> Barley.		4
	<i>e</i> Rye.		5
	<i>f</i> Buckwheat.		7
	<i>g</i> Grasses.		8
	<i>h</i> Forage plants.		9
71.	Sheen, Geo., El Paso.	Corn.	2
72.	Sibley, C. W., Pana.		
	<i>a</i> Wheat.		1
	<i>b</i> Corn.		2
	<i>c</i> Oats.		3
	<i>d</i> Rye.		5
	<i>e</i> Buckwheat.		7
	<i>f</i> Grasses.		8
	<i>g</i> Forage plants.		9
73.	Stephenson, C. M., Secor.	Corn.	2
74.	Stevens, Geo., Rockford.	Grasses.	8
75.	Stevens, Wm., Daysville.	Barley.	4
76.	Stitt, S. S., El Paso.	Corn.	2
77.	Stonebraker, Mr., Panola.	Corn.	2
78.	Storrs, John, Rockford.	Oats.	3
79.	Stumbaugh, Levi, El Paso.	Corn.	2
80.	Swartz, James, El Paso.	Corn.	2
81.	University of Illinois, Champaign.		
	<i>a</i> Wheat.		1
	<i>b</i> Corn.		2
	<i>c</i> Oats.		3

	<i>d</i> Barley.	4
	<i>e</i> Rye.	5
	<i>f</i> Buckwheat.	7
	<i>g</i> Grasses.	8
	<i>h</i> Forage plants.	9
82.	Vanbel, Adam, Peoria.	
	<i>a</i> Wheat.	1
	<i>b</i> Corn.	2
	<i>c</i> Oats.	3
	<i>d</i> Barley.	4
	<i>e</i> Rye.	5
	<i>f</i> Buckwheat.	7
	<i>g</i> Grasses.	8
	<i>h</i> Forage plants.	9
83.	Weedman, T. S., Farmer City.	
	<i>a</i> Wheat.	1
	<i>b</i> Corn.	2
	<i>c</i> Oats.	3
	<i>d</i> Barley.	4
	<i>e</i> Rye.	5
	<i>f</i> Buckwheat.	7
	<i>g</i> Grasses.	8
	<i>h</i> Forage plants.	9
84.	Whitten, Alvert, Bismarck.	Corn. 2
85.	Wilcox, John Rockford.	
	<i>a</i> Wheat.	1
	<i>b</i> Oats.	3
86.	Wolf, John, Canton.	Grasses. 8
87.	Wyman, Byron F., Sycamore.	
	Grasses.	8

GROUP 3.

88.	Bone, F. E., Tallula.	Sorghum.	24
89.	Burdick, J. L., Rockford.	Sorghum.	24
90.	Butler, J. J., Eldorado.	Sorghum.	24
91.	Confectioners' and Bakers' Supply Co.	Chicago, Confectionery.	27
92.	Furman, E. S., El Paso.		
	<i>a</i>	Sugar cane.	17
	<i>b</i>	Sorghum.	24
93.	Hay, Leon, Kankakee.	Sorghum.	24
94.	Helms & Ripley, Belleville.		
	<i>a</i>	Sugar cane.	17
	<i>b</i>	Sorghum.	24
95.	Hooker, M. A., McLeansboro.	Sorghum.	24
96.	Huff, Jacob, Grand Detour.	Sorghum.	24
97.	Kimmel, W. G., Jonesboro.	Sugar cane.	17
98.	La Rosh, S. D., Pekin.	Sorghum.	24
99.	McHenry, J. W., Carmi.		
	<i>a</i>	Sugar cane.	17
	<i>b</i>	Sorghum.	24
100.	Masac County Fruit Growers' Ass'n, Metropolis.	Sorghum.	24
101.	Nash, J. E., Princeton.	Sorghum.	24
102.	Neeper, A., Kinmundy.	Sorghum.	24
103.	Russell, A. E., Shattuc.	Sorghum.	24
104.	Shedden, Robert, Pingree Grove.	Sugar cane.	17
105.	Sibley, C. W., Pana.	Sorghum.	24
106.	University of Illinois, Champaign.	Sorghum.	24
107.	Weedman, T. S., Farmer City.	Sorghum.	24

GROUP 4.

108.	Bone, F. E., Tallula.	
	<i>a</i> Potatoes.	28
	<i>b</i> Sugar beets, mangel wurzels, etc.	29
	<i>c</i> Turnips.	30
109.	Brumback, David, Danforth.	Pota-
	toes, sweet potatoes, yams.	28

UNITED STATES.

GROUP 9.

164.	Bone, F. E., Tallula.	Hemp.	59
165.	Brumback, David, Danforth.	Hemp and flax.	59
166.	Burdick, J. L., Rockford.	Flax.	59
167.	Chester, T. P., Champaign.	Hemp and flax.	59
168.	Edmonds, W. P., Taylor.	Hemp.	59

169.	Kimmel, W. G., Jonesboro.	Cotton.	53
170.	La Rosh, S. D., Pekin.	Hemp and flax.	59
171.	Neeper, A., Kinmundy.	Hemp.	59
172.	Shedden, Robert, Pingree Grove.	Hemp and flax.	59
173.	Weedman, T. S., Farmer City.	Hemp.	59

INDIANA.

GROUP 1.

1.	Armentrout, W. D., Crawfordsville.	Wheat.	1
2.	Barker, I. N., Thorntown.	<i>a</i> Corn.	2
		<i>b</i> Clover seed.	9
3.	Bazner, John, Bunker Hill.	Corn.	2
4.	Beach, B. S., Valparaiso.	Corn.	2
5.	Beers, Thomas, Hecla.	Wheat.	1
6.	Bennett, Harry, Franklin.	Corn.	2
7.	Blair, John, Peru.	Wheat.	1
8.	Boyer, John, Thorntown.	Corn.	2
9.	Bridges, B. F., Rockport.	Corn.	2
10.	Burk, Ellis, Crawfordsville.	<i>a</i> Oats.	3
		<i>b</i> Barley.	4
11.	Cap, I. B., & Son, Bicknell.	Corn.	2
12.	Clark, Joseph, Goodland.	Corn.	2
13.	Cloud, David, Thorntown.	Corn.	2
14.	Colwell, S. N., Mt. Ayr.	Corn.	2
15.	Connolly, W. A., Eel River.	Corn.	2
16.	Cooper, D. F., Columbia City.	Wheat.	1
17.	Corey, James, Oakland City.	Oats.	3
18.	Coss, John, Bellmore.	Clover seed.	9
19.	Creager, Peter, Columbia City.	Corn.	2
20.	Culbertson, E. & C., Moorfield.	<i>a</i> Barley.	4
		<i>b</i> Timothy.	8
		<i>c</i> Clover seed.	9
21.	Curry, John, New Carlisle.	Wheat.	1
22.	Davis, Joseph E., Marion.	Corn.	2
23.	Decker, Geo., Columbia City.	Oats.	3
24.	Deller, A., Angola.	<i>a</i> Corn.	2
		<i>b</i> Oats.	3
25.	Devericks, James A., La Fontaine.	Timothy.	8
26.	Dickens, B. W., Marion.	Wheat.	1
27.	Dibble, Chas., Patriot.	Buckwheat.	7
28.	Dibbin, Charles, Patriot.	Rye.	5
29.	Downing, Charles, Greenfield.	Corn.	2
30.	Downing, Geo. H., Crawfordsville.	Corn.	2
31.	Druliner, Quinby, Mill Creek.	Oats.	3
32.	Dungan, W. S., Franklin.	Corn.	2
33.	Edwards, Charles, Peru.	<i>a</i> Corn.	2
		<i>b</i> Oats.	3
34.	Ettinger, Geo. D., Bourbon.	<i>a</i> Oats.	3
		<i>b</i> Rye.	5
		<i>c</i> Buckwheat.	7
35.	Ettinger, Geo. D., Bourbon.	Wheat.	1
36.	Everett, J. A., Indianapolis.	<i>a</i> Wheat.	1
		<i>b</i> Corn.	2

	<i>c</i> Oats.	3
	<i>d</i> Orchard grass.	8
	<i>e</i> Clover seed.	9
37.	Fischer, Emory, Borden. Wheat.	1
38.	Gilmore, A. S., Greensburg. Wheat.	1
39.	Goss, John, Bellmore.	
	<i>a</i> Wheat.	1
	<i>b</i> Oats.	3
	<i>c</i> Barley.	4
	<i>d</i> Rye.	5
	<i>e</i> Buckwheat.	7
40.	Gregg, W. P., Goodland. Corn.	2
41.	Harper, Elijah, Oakland City. Corn.	2
42.	Hayden, Charles L., Otwell. Corn.	2
43.	Hayworth, James H., Georgetown.	
	Oats.	3
44.	Hodges, Mrs. Stella, Rockport.	
	Wheat.	1
45.	Hoff, Henry O., Ligonier. Oats.	3
46.	Hughes, Austin, Newport. Corn.	2
47.	Indianapolis Hominy Mills, Indianapolis.	
	ol. Grits.	11
48.	Key, J. P., Patoka. Corn.	2
49.	Kirminghoff, D., Angola. Wheat.	1
50.	Lee, Chas. S., Sugar Branch. Wheat.	
		1
51.	Lenhard, Christopher, Poling. Corn.	2
52.	Long, J. S., Salamonina. Wheat.	1
53.	Louton, O. P., Hillsdale. Wheat.	1
54.	Magill, A. L., Franklin. Timothy.	8
55.	Marvel, John, Indianapolis.	
	<i>a</i> Timothy and orchard grass.	8
	<i>b</i> Clover seed.	9
56.	Maze, W. A., Sharpsville. Corn.	2
57.	McCreary, Albt., Markland. Oats.	3
58.	McCollough, Maxwell, Crawfordsville.	
	Corn.	2
59.	McGinley, Isaac, Valparaiso. Corn.	2
60.	Miller, Ed., Peru. Corn.	2
61.	Miller, Geo. W., West Lebanon.	
	Wheat.	1
62.	Miller, H. F., Rockport. Corn.	2
63.	Moore, James, Bloomington. Wheat.	1
64.	Moore, J. W., Ligonier. Corn.	2
65.	Morris, C. S., Angola. Barley.	4
66.	Morrison, W. L., Scottsburg. Corn.	2
67.	Motter, C. H., Rockport. Oats.	3
68.	Norris, C. S., Angola. Wheat.	1
69.	Nowlin, A. E., Lawrenceburg. Corn.	2
70.	Pickett, Jabs, Greensboro. Wheat.	1
71.	Powers, L. A., Angola.	
	<i>a</i> Rye.	5
	<i>b</i> Buckwheat.	7
72.	Pumphrey, Geo. O., Mt. Ayr. Corn.	2
73.	Reynolds & Son, Weaver. Barley.	4
74.	Reynolds & Son, Weaver. Wheat.	1
75.	Riley, Howard, Thorntown. Corn.	2

DEPARTMENT A.—AGRICULTURE.

GROUP 7.		
76. Riley, James, Thorntown.		
<i>a</i> Wheat.	1	
<i>b</i> Corn.	2	
<i>c</i> Oats.	3	
<i>d</i> Clover seed.	9	
77. Sash, Leroy, Martinsburg.	Oats.	3
78. Sash, Leroy, Martinsburg.	Wheat.	1
79. Sedan, John M., East Enterprise.		
Corn.	2	
80. Seig, John Q. A., Corydon.	Corn.	2
81. Shoemaker, Ed., Columbia.		
<i>a</i> Rye.	5	
<i>b</i> Buckwheat.	7	
82. Smiley, A. M., Laughery.	Corn.	2
83. Smith, J. B., Queensville.	Corn.	2
84. Smith, Willard, East Enterprise.		
<i>a</i> Oats.	3	
<i>b</i> Barley.	4	
85. South, A. A., Rutland.	Oats.	3
86. Stoneman, J. R., Spencer.	Oats.	3
87. Stout, Wm., Portland.	Wheat.	1
88. Stout, Lee, Franklin.	Wheat.	1
89. Strain, S. Vet., Princeton.	Corn.	2
90. Strain & Bro., Princeton.	Timothy.	8
91. Taylor, Hubbard, Yankeetown.		
Wheat.	1	
92. Techenon, Albert, Princeton.	Wheat.	1
93. Thomas, Geo., Rockport.	Corn.	2
94. Thomas, Henry, La Fontaine.		
<i>a</i> Rye.	5	
<i>b</i> Buckwheat.	7	
95. Thompson, Alfred H., Bly.	Corn.	2
96. Thompson, Cyrus J., Vincennes.		
Wheat.	1	
97. Thornburg & Lawrence, Rutland.		
Wheat.	1	
98. Tichenon, Geo., Princeton.	Corn.	2
99. Trout, Lee, Franklin.		
<i>a</i> Corn.	2	
<i>b</i> Oats.	3	
100. Wildmarth, Emanuel, Pleasant Plains.		
<i>a</i> Oats.	3	
<i>b</i> Rye.	5	
<i>c</i> Buckwheat.	7	
101. Wilhelm, I. C., Ligonier.		
<i>a</i> Rye.	5	
<i>b</i> Buckwheat.	7	
102. Woods, Frank, Princeton.		
<i>a</i> Rye.	5	
<i>b</i> Buckwheat.	7	
GROUP 3.		
103. Everett, J. A., Indianapolis.	Sugar cane.	17
GROUP 5.		
104. Everett, J. A., Indianapolis.	Beans, peas and broom corn.	32
GROUP 7.		
105. Barnett, Mrs. Ida, Muncie.	Butter.	42
106. Borden, Mrs., Borden.	Butter.	42
107. Busick, Mrs. Kate M., Wabash.	Butter.	42
108. Claypol, Mrs. Marcus, Muncie.	Butter.	42
109. Graybill, Mrs. S. C., Ladoga.	Butter.	42
110. Hayden, Mrs. Edgar, Lowell.	Butter.	42
111. Hill, Mrs. Pauline, Lowell.	Butter.	42
112. Kean, Mrs. Morgan, Mitchell.	Butter.	42
113. King, G. S., Edenburg.	Butter.	42
114. Lowell Co-operative Creamery, Lowell.	Butter.	42
115. Nye, Mrs. Jennie R., Goshen.	Butter.	42
116. Perdu University, Lafayette.	Butter.	42
117. Rensselaer Separated Butter Co., Rensselaer.	Butter.	42
118. Roberts, Mrs. Mary Ann, Pendleton.	Butter.	42
119. St. Johns Creamery, St. Johns.	Butter.	42
120. Tresenrighter, Mrs. H., Georgetown.	Butter.	42
GROUP 9.		
121. Combs, H. L., South Whitney.	Wool.	60
122. Conner, Sid, Flat Rock.	Wool.	60
123. Cowgill, C., Warsaw.	Wool.	60
124. Cuilliams, James A., Fincastle.	Wool.	60
125. Dolph, A. S., Teagarden.	Wool.	60
126. Dunn, C. H., Auburn.	Wool.	60
127. Everett, J. A., Indianapolis.	Hemp and flax.	59
128. Harding, T. L., La Porte.	Wool.	60
129. Haverstock, S. G., Butler.	Wool.	60
130. Helser, Eli, Warsaw.	Wool.	60
131. Lewis, Benson R., Salem Centre.		
132. M'Millen, I., Upland.	Wool.	60
133. Mitchell, Roberts, Princeton.	Wool.	60
134. Replogle, O. E., La Porte.	Wool.	60
135. Sanders, Daniel A., Goshen.	Wool.	60
136. Skinner & Collett, Denver.	Wool.	60
137. Thompson, John L., & Sons, Arcana.	Wool.	60
138. Thompson, John L., Marion.	Wool.	60
139. Whipp, Wm., & Son, Carlisle.	Wool.	60
140. White, Will A., Franklin.	Wool.	60
141. Wiley, W. M., New Augusta.	Wool.	60
142. Williams, I. J., & Son, Muncie.	Wool.	60

IOWA

GROUP 1.

1. Alberts, John H., Jefferson.		29. Mergham, P. L., Clayton. Corn.	2
<i>a</i> Corn.	2	30. McCandless, S. A., Belle Plaine.	
<i>b</i> Millet.	8	Corn.	2
2. Angus, William, Straham. Millet.	10	31. McCulloch, Fred, Hartwick.	
3. Ashton, Charles, Guthrie Centre.		<i>a</i> Corn.	2
Wheat.	1	<i>b</i> Oats.	3
4. Beecher, A. H., Ida Grove.		32. Nims Bros., Emerson.	
<i>a</i> Wheat.	1	<i>a</i> Oats.	3
<i>b</i> Oats.	2	<i>b</i> Buckwheat.	7
5. Bice, Clyde, Perry. Corn.	2	<i>c</i> Grasses.	6
6. Bills, Henry, Perry. Corn.	2	33. Nims, D. B., Emerson.	
7. Clark, B. B., Red Oak. Wheat.	1	<i>a</i> Grasses, timothy and millet.	8
8. Cleete, L. G., Manchester.		<i>b</i> Alfalfa.	9
<i>a</i> Wheat.	1	34. Packard, S. B., Marshalltown.	
<i>b</i> Corn.	2	Wheat.	1
<i>c</i> Oats.	3	35. Plummer, A. L., Ivy.	
<i>d</i> Barley.	4	<i>a</i> Corn.	2
<i>e</i> Rye.	5	<i>b</i> Clover seed.	9
<i>f</i> Buckwheat.	7	36. Plymouth County World's Fair Ass'n,	
<i>g</i> Grasses.	8	Le Mars.	
<i>h</i> Clover seed.	9	<i>a</i> Wheat.	1
9. Collman, A. F., Corning.		<i>b</i> Flour and mill feed.	11
<i>a</i> Wheat.	1	37. Price, John, Des Moines.	
<i>b</i> Corn.	2	<i>a</i> Wheat.	1
<i>c</i> Oats.	3	<i>b</i> Rye.	5
<i>d</i> Barley.	4	38. Reeves, Elmer, Waverly. Grasses.	8
<i>e</i> Hay.	8	39. Royer, Guy, Perry. Corn.	2
10. Connell, H. H., Guernsey. Timothy,		40. Rundell, L., Iowa City.	
red top and seeds.	8	<i>a</i> Wheat.	1
11. Cownie, John W., South Amana.		<i>b</i> Barley.	4
Timothy seed.	8	41. Russell, J. J., Mason City. Corn.	2
12. Crall, M., Mason City. Corn.	2	42. Rutherford, J. B., Manchester. Rye.	5
13. Dongal, E., Panama. Corn.	2	43. Smith, E. H., Dubuque.	
14. Doolittle, J. E., Cresco.		<i>a</i> Wheat.	1
<i>a</i> Corn.	2	<i>b</i> Oats.	3
<i>b</i> Oats.	3	<i>c</i> Grasses, clover and millet.	8
15. Elliott, Joseph, Polen.		44. Snuder, Jacob A., Marshalltown.	
<i>a</i> Wheat.	1	Corn.	2
<i>b</i> Corn.	2	45. Sprintig, Henry, Perry, Corn.	2
16. Ellis, J. C., Truro. Corn.	2	46. Steigerwalt, W. F., Carroll.	
17. Eral, F. R., Rolfe.		<i>a</i> Oats.	3
<i>a</i> Corn.	2	<i>b</i> Rye.	5
<i>b</i> Millet.	8	<i>c</i> Timothy.	8
18. Franklin, Geo. W., Atlantic. Wheat.	1	47. Surfus, C. V., Bristow.	
19. Harvey, Graves, Des Moines. Millet		<i>a</i> Corn.	2
seed.	8	<i>b</i> Oats.	3
20. Harvey, Henry, Des Moines. Barley.	4	48. Thompson, Wm., Humboldt.	
21. Herrold, Henry, Ridgedale. Corn.	2	<i>a</i> Corn.	2
22. Holmes, Joseph, Marshalltown. Mil-		<i>b</i> Timothy seed.	8
let.	8	49. Werger, Fred, National.	
23. Hudler, Lee, Audubon.		<i>a</i> Wheat.	1
<i>a</i> Rye.	5	<i>b</i> Oats.	3
<i>b</i> Timothy.	8	50. Wilson, J. J., Norwalk. Rye.	5
24. Husted, William M., Des Moines.		51. White, F. S., Des Moines.	
Corn.	2	<i>a</i> Wheat.	1
25. James, Moses, Perry. Corn.	2	<i>b</i> Oats.	3
26. Keegel, E. W., Garnavillo.		<i>c</i> Barley.	4
<i>a</i> Corn.	2	<i>d</i> Buckwheat.	7
<i>b</i> Oats.	3	<i>e</i> Timothy, grass and millet seeds.	8
<i>c</i> Timothy.	8	52. Wilson, W. A., Waterloo. Wild	
27. Knickerbocker, E. H., & Co. Fairfax.		grasses.	8
<i>a</i> Wheat.	1	53. Wright, E. P., Summerset.	
<i>b</i> Corn.	2	<i>a</i> Wheat.	1
<i>c</i> Oats.	3	<i>b</i> Corn.	2
<i>d</i> Rye.	5	<i>c</i> Buckwheat.	7
28. Kreuger, Wm., Garnavillo. Corn.	2	<i>d</i> Millet and timothy.	8

DEPARTMENT A.—AGRICULTURE.

GROUP 3.

54. Clute, L. G., Manchester. Honey and beeswax. 26
 55. Herrold, Henry, Ridgedale. Syrup. 24
 56. Kretchmer, E., Red Oak. Honey, beeswax and bee culture appliances. 26
 57. Wherry, J. P., Guernsey. Syrup. 24

GROUP 4.

58. Clute, L. G., Manchester.
a Irish and sweet potatoes. 28
b Garden and table vegetables and root crop. 30
 59. Collman, A. F., Corning. Potatoes. 28
 60. Gabrilson, C. L., New Hampton. Potatoes. 28
 61. Hethershaw, James, Des Moines. Potatoes. 28
 62. Wright, E. P., Summerset. Potatoes. 28

GROUP 5.

63. Clute, L. G., Manchester. Beans. 32

GROUP 7.

64. Garber, J., Rockwell. Butter. 42
 65. Lyon, Mrs. C. H., Dexter. Butter. 42
 66. Plummer, A. L., Ivy. Butter. 42
 67. Renner Bros., Grand Junction.
a Butter. 42
b Cheese. 43

GROUP 9.

68. Clute, L. G., Manchester. Flax seed. 59

GROUP 17.

69. Clayton, B. F., Macedonia. Soil. 93
 70. Crosby, Jas. O., Garnavillo. Soil. 93
 71. Guelich, Theod., Burlington. Soil. 93
 72. Madden, J. J., Le Mars. Soil. 93
 73. McCulloch, Fred, Hartwick. Soil. 93
 74. Roberts, A. C., Fort Madison. Soil. 93
 75. Thompson, Jasper, Forest City. Soil. 93
 76. Wilson, James, Ames. Soil. 93

KENTUCKY.

GROUP 1.

1. Alvis, J. J., Henderson. Corn. 2
 2. Atkinson, John B., Earlington. Grasses. 8
 3. Bard, Taylor, Fulton. Wheat. 1
 4. Bard, W. N., Bardwell. Wheat. 1
 5. Bennett, Edward, Henderson. Wheat. 1
 6. Campbell, Thomas W., Clinton. Wheat. 1
 7. Camp, Edward, Trenton. Wheat. 1
 8. Camp, Richard, Trenton. Wheat. 1
 9. Cash, W. B., Fancy Farm. Wheat. 1
 10. Chestnut, W. J., Brodhead. Wheat in straw. 1
 11. Clardy, F. C., Newstead. Clover seed. 9
 12. Clardy, J. D., & Sons, Newstead.
a Wheat. 1
b Corn. 2
c Clover seed. 9
 13. Coke, Guthrie, Jr., Allensville.
a Wheat. 1
b Clover. 9
 14. Cooper, J. W., Smiths. Wheat. 1
 15. Cratton, Edwin, Owensboro. Wheat. 1
 16. Davis, James M., Roscoe.
a Wheat. 1
b Timothy. 8
 17. Egbert, J. E., Clinton. Wheat. 1
 18. Elam, Abesham, Henderson. Corn. 2
 19. Farmer, H. H., Anthoston. Wheat. 1
 20. Flournoy, L. C., Morganfield. Wheat. 1
 21. Gaines, R. E., Walnut Flat. Wheat. 1
 22. Gaines, Thomas, Newstead. Orchard grass. 8
 23. Gardner, T. T., Bardwell. Wheat. 1
 24. Garnett, J. F., Casky. Wheat. 1
 25. Gilman & Conell, Lexington. Blue-grass seed. 8
 26. Given, J. W., Morganfield. Wheat. 1
 27. Graham, T. L., Casky. Corn. 2

28. Hammer, William E., Morganfield. Wheat. 1
 29. Hart, B. M., Boxville. Corn. 2
 30. Harris, Amos, Flournoy. Wheat. 1
 31. Hayworth, R. M. J., Bardwell. Wheat. 1
 32. Henry, Arthur, Shelbyville. Clover seed. 9
 33. Henshaw, William, Henshaw.
a Wheat. 1
b Corn. 2
 34. Hewlett, J. R., Princeton.
a Wheat. 1
b Grass. 8
 35. Hill, Bona, Henderson. Wheat. 1
 36. Hite, J. W., Waverly. Wheat. 1
 37. Ingram, J. F., Princeton. Wheat. 1
 38. Jackson, Joe, Clinton. Wheat. 1
 39. Jackson, W. J., Clinton. Wheat. 1
 40. Johnson, M. D., Casey. Wheat. 1
 41. Lambert, Robert, Morganfield. Corn. 2
 42. Lowery, W. A., Hopkinsville. Wheat. 1
 43. Martin, George, Carding. Corn. 2
 44. McConnett, R. Y., Jordan. Wheat. 1
 45. Morgan, R. R., Princeton. Corn. 2
 46. Moseley, W. W., Arlington. Wheat. 1
 47. Oty, J. W., Robard. Corn. 2
 48. Owen, M. V Lexington.
a Oats. 3
b Timothy. 8
 49. Pennman, J. D., Clinton.
a Wheat. 1
b Clover. 9
 50. Pettitt, G. W., Princeton. Wheat. 1
 51. Prather, Edward, Casky. Wheat. 1
 52. Radford, W. T., Pembroke. Wheat. 1
 53. Ratliff, R. B., Princeton.
a Wheat. 1
b Grass. 8
 54. Rowley, Robert, Uniontown.
a Wheat. 1
b Corn. 2

UNITED STATES.

55. Rudd, Allen, Owensboro. Wheat.	1	95. Carroll, M. H., Fairview. Tobacco.	48
56. Scovell, M. A., Lexington.		96. Cassidy, J. T., Lexington. Burley	
<i>a</i> Wheat.	1	leaf tobacco.	48
<i>b</i> Grass.	8	97. Chinn, Hubbard, Paris. Burley leaf	
57. Shetton, P. T., Newstead. Corn.	2	tobacco.	48
58. Sims, L. B., Cobb.		98. Clardy, F. C., Newstead. Tobacco	
<i>a</i> Wheat.	1	seed.	48
<i>b</i> Corn.	2	99. Clardy, J. D., & Sons, Newstead. To-	
59. Small, T. T., Allensville.		bacco.	48
<i>a</i> Wheat.	1	100. Clarke, Edward, Owensboro. To-	
<i>b</i> Timothy.	8	bacco.	48
60. Spicer, J. W., Clinton. Wheat.	1	101. Cooper, J. W., Smiths. Tobacco.	48
61. Stanley, Nat., Owensboro. Wheat.	1	102. Craig, J. B., Waverly. Tobacco.	48
62. Stanley, William, Scuffletown. Corn.		103. Cratton, Edwin, Owensboro. To-	
<i>a</i> Wheat.	1	bacco.	48
<i>b</i> Corn.	2	104. Crenshaw, Al., Dripping Springs.	
63. Stone, Alfred, Clinton. Wheat in		Tobacco.	48
straw.	1	105. Crenshaw, J. T., Shelbyville. Burley	
64. Stowe, Robert, Lexington. Orchard		leaf tobacco.	48
grass.	8	106. Crutcher, Wash., Jett. Burley leaf	
65. Sublett, J. C., Clinton.		tobacco.	48
<i>a</i> Wheat.	1	107. Davisman, S. P., Bardstown. Bur-	
<i>b</i> Clover.	9	ley leaf tobacco.	48
66. Sugg, John, Morganfield.		108. Davis, T. W., Williamsburg. Burley	
<i>a</i> Wheat.	1	leaf tobacco.	48
<i>b</i> Corn.	2	109. Dawson, Mont., Dripping Springs.	
67. Surr, R. J., Lexington. Bluegrass.	8	Tobacco.	48
68. Tucker, W. H., Roscoe.		110. Dawson, Wick, Perdue. Tobacco.	48
<i>a</i> Wheat.	1	111. Denton, J. D., Henderson. Tobacco.	
<i>b</i> Corn.	2		48
69. Wakefield, Brown, Trenton. Wheat.	1	112. Elgin, F. W., Hopkinsville. Tobacco.	
70. Waller, Mrs., Morganfield.			48
<i>a</i> Wheat.	1	113. Elliott, Wm. J. Burley leaf tobacco.	
<i>b</i> Corn.	2		48
71. Wall, M. M., Allensville.		114. Ellis, C. M., Shelbyville. Burley leaf	
<i>a</i> Wheat.	1	tobacco.	48
<i>b</i> Timothy.	8	115. Farmer, H. H., Anthoston. Tobacco.	
<i>c</i> Clover.	9		48
72. Walton, Frank, Allensville.		116. Felix, Judge J. J. Burley leaf tobacco.	
<i>a</i> Wheat.	1		48
<i>b</i> Clover.	9	117. Fritz, John, Fairview. Tobacco.	48
73. Wayne, T. P., Clinton. Wheat.	1	118. Fritz, Michael, Hopkinsville. To-	
74. White, H. C., Trenton. Wheat.	1	bacco.	48
75. Wilson, T. J., Wilson. Wheat.	1	119. Froman, W. H., Carrollton. Burley	
76. Young, J. W., Henshaw. Wheat.	1	leaf tobacco.	48
GROUP 8.			
77. Adams, Q., Lewisport. Tobacco.	48	120. Furguson, Robert, Paris. Burley leaf	
78. Allen, J. C., Shelbyville. Burley leaf		tobacco.	48
tobacco.	48	121. Gaines, J. J., Gracey. Tobacco.	48
79. Ash, W. C. Burley leaf tobacco.	48	122. Gaines, Will A., Paris. Burley leaf	
80. Barrett, James, Henderson. Tobacco.		tobacco.	48
	48	123. Garrett, Samuel, Princeton. Tobacco.	
81. Bennett, Edward, Henderson. Tobac-			48
co.	48	124. Garth, Webb, Trenton. Tobacco.	48
82. Blakemore, Sam, New Castle. Burley		125. Gill, Robert, Allensville. Tobacco.	48
leaf tobacco.	48	126. Goetz, Casper, Owensboro. Tobacco.	
83. Boyd, J. A., Kelley. Tobacco.	48		48
84. Boyd, L., Kelley. Tobacco.	48	127. Halton, W. L., Maysville. Burley	
85. Boyd, Roe, Kelley. Tobacco.	48	leaf tobacco.	48
86. Bradford, S. W., Augusta. Burley		128. Hardy, J., Owensboro. Tobacco.	48
leaf tobacco.	48	129. Hawkins, J. W., Paris. Burley leaf	
87. Bryant, Henry, Gracey. Tobacco.	48	tobacco.	48
88. Burrows, Ed., Salvisa. Burley leaf		130. Hawkins, W. B., Lexington. Burley	
tobacco.	48	leaf tobacco.	48
89. Busch, Marion, Versailles. Burley		131. Head, W. G., Henderson. Tobacco.	
leaf tobacco.	48		48
90. Byar, Sam, Augusta. Burley leaf to-		132. Heilman, Jacob, New Castle. Bur-	
bacco.	48	ley leaf tobacco.	48
91. Calhoun, George C., Owensboro. To-		133. Hester, James C., Sedalia. Tobacco.	
bacco.	48		48
92. Callaway, S. P., New Castle. Burley		134. Hill, Bona, Henderson. Tobacco.	48
leaf tobacco.	48	135. Hinkle, M. A., Bardstown. Burley	
93. Camp, Richard, Trenton. Tobacco.	48	leaf tobacco.	48
94. Camp, Richard, Trenton. Tobacco.	48		

DEPARTMENT A.—AGRICULTURE.

- | | |
|--|---|
| 136. Hodge, Edward, Henderson. Tobacco. 48 | 171. Pickett, E. D., Maysville. Burley leaf tobacco. 48 |
| 137. Holbrook, O. S., Hartford. Tobacco. 48 | 172. Pickett, Jas., Shelbyville. Burley leaf tobacco. 48 |
| 138. Hook, W. J., Augusta. Burley leaf tobacco. 48 | 173. Rice, J. M., Taylorsville. Burley leaf tobacco. 48 |
| 139. Hutchens, Sam, Bardstown. Burley leaf tobacco. 48 | 174. Riley, N., Allensville. Tobacco. 48 |
| 140. Jesse, T. M., New Castle. Burley leaf tobacco. 48 | 175. Robertson, Tom, Maysville. Burley leaf tobacco. 48 |
| 141. Johnson, Benjamin, Allensville. Tobacco. 48 | 176. Roch, Robert, Gracey. Tobacco. 48 |
| 142. Johnson, Fantley, Versailles. Burley leaf tobacco. 48 | 177. Rollins, W. R., Lebanon. Burley leaf tobacco. 48 |
| 143. Kirsh, Louis, Bardstown. Burley leaf tobacco. 48 | 178. Shaver, Felix, Hartford. Tobacco. 48 |
| 144. Latham, J. W., Lexington. Burley leaf tobacco. 48 | 179. Slule, T. M., Fairview. Tobacco. 48 |
| 145. Leachman, W. H. Burley leaf tobacco. 48 | 180. Snyder, James, Taylorsville. Burley leaf tobacco. 48 |
| 146. Leadford, J. H., Dripping Springs. Tobacco. 48 | 181. Spaulding, Wm., Lebanon. Burley leaf tobacco. 48 |
| 147. Le Dau, Joseph, Owensboro. Tobacco. 48 | 182. Stallard, Pitt, Taylorsville. Burley leaf tobacco. 48 |
| 148. Lee, J. R., Lebanon. Burley leaf tobacco. 48 | 183. Stanley, N. B., Owensboro. Tobacco. 48 |
| 149. Lloyd, Evan, Maysville. Burley leaf tobacco. 48 | 184. Sullivan, G. B., Taylorsville. Burley leaf tobacco. 48 |
| 150. Lloyd, J. T., Augusta. Burley leaf tobacco. 48 | 185. Taylor, W. T. Burley leaf tobacco. 48 |
| 151. Lockett, Walter, Henderson. Tobacco. 48 | 186. Thompson, Wm. Z., Georgetown. Burley leaf tobacco. 48 |
| 152. Logan, D. C., Lexington. Burley leaf tobacco. 48 | 187. Thornton, W. W., Lebanon. Burley leaf tobacco. 48 |
| 153. Logan, J. A., Christiansburg. Burley leaf tobacco. 48 | 188. Todd, W. M., Winchester. Tobacco. 48 |
| 154. Lucas, Jeff, Frankfort. Burley leaf tobacco. 48 | 189. Triplett, R. B., Georgetown. Burley leaf tobacco. 48 |
| 155. McEntyre, John J., Owensboro. Tobacco. 48 | 190. Ubank, J. E., Winchester. Tobacco. 48 |
| 156. McKee, Dr. J. R., Versailles. Burley leaf tobacco. 48 | 191. Wakefield, Brown, Trenton. Tobacco. 48 |
| 157. Mason, Robert, Gracey. Tobacco. 48 | 192. Walton, J. J., Burlington. Burley leaf tobacco. 48 |
| 158. Mays, E. D. Burley leaf tobacco. 48 | 193. Ware, C. W., Trenton. Tobacco. 48 |
| 159. Mitchell, S. J., Carrollton. Burley leaf tobacco. 48 | 194. White, H. C., Trenton. Tobacco. 48 |
| 160. Morgan, R. R., Princeton. Tobacco. 48 | 195. Willis, J. C., Hopkinsville. Tobacco. 48 |
| 161. Neal, Billy. Burley leaf tobacco. 48 | 196. Wilson, T. G., Wilson. Tobacco. 48 |
| 162. Neal, F. R. Burley leaf tobacco. 48 | 197. Wood, E. W., Owensboro. Tobacco. 48 |
| 163. Neal, J. L., Harrodsburg. Burley leaf tobacco. 48 | 198. Wood, H. B., Hopkinsville. Tobacco. 48 |
| 164. Offutt, Ezra, Georgetown. Burley leaf tobacco. 48 | |
| 165. Paine, Jesse, Pembroke. Tobacco. 48 | |
| 166. Panisk, Thomas, Versailles. Burley leaf tobacco. 48 | |
| 167. Payne, Geo. V., Georgetown. Burley leaf tobacco. 48 | |
| 168. Pendleton, F. B., Pembroke. Tobacco. 48 | |
| 169. Peppen, R. P., Frankfort. Burley leaf tobacco. 48 | |
| 170. Perkins, William, Trenton. Tobacco. 48 | |
-
- | GROUP 9. | |
|---|--|
| 199. Guthie, James, Shelbyville. Hemp. 59 | |
| 200. Laughridge, W. J., Lexington. Hemp. 59 | |
| 201. McCauley, W. P., Versailles. Hemp. 59 | |
| 202. Morgan, R. C., Lexington. Hemp. 59 | |
| 203. Scott, J. F., & Co., Lexington. Hemp. 59 | |
| 204. Vance, R. J., Shelbyville. Hemp. 59 | |
| 205. Winston, Avery S., Lexington. Hemp. 59 | |

LOUISIANA.

GROUP 1.

1. Louisiana World's Fair Commission,
New Orleans.
 a Corn. 2
 b Oats. 3
2. New Orleans Board of Trade, New
Orleans. Rice, showing methods of cul-
tivating, harvesting and milling. 6

GROUP 3.

3. Louisiana Sugar Exchange, New Or-
leans.
 a Methods and manner of producing
 sugar and molasses. 17
 b Raw and clarified sugars and syrups. 18

GROUP 8.

4. Louisiana World's Fair Commission,
New Orleans. Tobacco. 48

GROUP 9.

5. Louisiana World's Fair Commission,
New Orleans. Silk cocoons. 61
6. New Orleans Cotton Exchange, New
Orleans.
 a Cotton. 53
 b Cotton seed oil and hulls. 56

GROUP 17.

7. Louisiana World's Fair Commission,
New Orleans. Soils. 84

MAINE.

GROUP 1.

1. Cheen, S. W. L., Exeter Mills. Bar-
ley. 4
2. Blodgett, Geo. H., Bowdoinham.
Corn. 2
3. Blossom, L. H., South Turner.
 a Corn. 2
 b Barley. 4
4. Bradford, E. F., Wayne. Wheat. 1
5. Briggs, D. J., South Turner. Corn. 2
6. Butler, Alonzo, Union. Wheat. 1
7. Day, Prentiss, Kennebunk.
 a Barley. 4
 b Rye. 5
8. Eastman, A. A., Dexter. Buckwheat.
7
9. Farrer, Harry, South Paris. Oats. 3
10. Hardison, H. S., Caribou.
 a Wheat. 1
 b Oats. 3
 c Barley. 4
11. Jerrard, Geo. W. P., Caribou. Oats. 3
12. Johnson, N., Springfield. Corn. 2
13. Littlefield, O. W., Augusta. Barley. 4
14. McKeen, A. W., North Fryeburg.
Oats. 3
15. Meader, O., Albion. Corn. 2
16. Phinney, W. H., Machias.
 a Wheat. 1
 b Barley. 4
17. Pinkham, N. C., Bolster's Mills.
 a Wheat. 1
 b Corn. 2
18. Roberts, Dimon, Goodwin's Mills.
 a Barley. 4
 b Rye. 5
19. Smart, Jesse, North Turner. Rye. 5
20. Smith, C. E., Boothbay. Oats. 3
21. Snell, H. H., Riverside.
 a Wheat. 1
 b Oats. 3
 c Barley. 4
 d Rye. 5

22. Sprague, E. B., Bowdoinham. Corn. 2
23. Sweetser, C. S., North Yarmouth.
Oats. 3
24. Taylor, J. H., Kennebunk. Wheat. 1
25. Taylor, J. M., Kennebunk. Rye. 5
26. Tucker, Herbert M., South Paris.
 a Corn. 2
 b Barley. 4
 c Rye. 5
27. Upton, H. N., Bethel.
 a Wheat. 1
 b Corn. 2
28. Willey, B. F., Cherryfield.
 a Wheat. 1
 b Oats. 3
29. Willey, E. D., Clinton.
 a Wheat. 1
 b Corn. 2
 c Oats. 3
30. Yeaton, J. H., Augusta. Oats. 3

GROUP 3.

31. Greely, C. H., Clinton. Honey. 26
32. Hoyt, W., Ripley. Honey. 26
33. Meader, O., Albion. Maple syrup. 21
34. Norton, W. H., Skowhegan. Honey. 26
35. Wheeler, C. J., Chesterville. Maple
syrup. 21

GROUP 4.

36. Edgcomb, S. P., Belfast. Turnips. 30
37. Edgerly, E. E., Princeton. Carrots. 30
38. Jerrard, Geo. W. P., Caribou. Pota-
toes. 28
39. King, S. M., South Paris. Beets. 29
40. McFadden, Orrin, Cedar Grove. Car-
rots. 30
41. Pinkham, N. C., Bolster's Mills.
 a Beets. 29
 b Turnips. 30
42. Snell, H. H., Riverside. Carrots. 30
43. Spaulding, G. W., North Anson. Car-
rots. 30

DEPARTMENT A.—AGRICULTURE.

44. Taylor, J. H., Kennebunk
a Beets. 29
b Turnips and carrots. 30
 45. Tucker, Herbert M., South Paris.
a Beets. 29
b Turnips. 30
 46. White, H. P., Swanville. Turnips. 30
 47. Willey, E. D., Clinton. Turnips and
 carrots. 30

GROUP 5.

48. Allen, Carter, Hampden Centre.
 Beans. 32
 49. Edgerly, E. E., Princeton. Beans. 32
 50. Fernald, Eliot, Saco. Beans. 32
 51. French, Moses, & Son, Solon. Beans. 32
 52. Johnson, D. B., Freedom. Beans. 32
 53. King, S. M., South Paris. Beans. 32
 54. Luce, W. A., So. Union. Beans. 32
 55. Norcross, M. F., Winthrop. Beans. 32
 56. Plummer, James, South Dover. Beans. 32
 57. Smart, Jesse, North Troy. Pease. 32
 58. Snell, H. H., Riverside. Pease and
 beans. 32
 59. Spalding, G. W., North Anson. Pease. 32
 60. Taylor, J. H. Pease. 32
 61. Tucker, Herbert M., South Paris.
 Pease. 32
 62. Upton, N. H., Bethel. Pease. 32
 63. Watson, S. C., Oakland. Beans. 32
 64. Willey, E. D., Clinton. Pease. 32
 65. Woodbury, C. H., Exeter Mills.
 Beans. 32

GROUP 7.

66. Brook Farm Creamery, Foxcroft. But-
 ter. 42
 67. Cape Elizabeth Creamery, Cape Eliz-
 abeth. 42
 68. Creamery Butter Company, West
 Paris. Butter. 42
 69. East Pittston Creamery, Pittston.
 Butter. 42
 70. Haines, A. L., Fort Fairfield. Cheese. 43
 71. Livermore Dairying Association, Liv-
 ermore. Butter. 42
 72. Meader, O., Albion. Butter. 42
 73. Norcross, M. F., Winthrop. Cheese. 43
 74. Perley, C. J., Cross Hill. Butter. 42
 75. Porter, Ira J., Houlton. Butter. 42
 76. Riverside Creamery, Foxcroft. But-
 ter. 42
 77. Robbins, Mrs. M. L., Winthrop. But-
 ter. 42
 78. Russell, A. P., North Turner Bridge.
 Butter. 42
 79. Skowhegan Jersey Creamery, Skow-
 hegan. Butter. 42
 80. Turner Centre Creamery, Turner.
 Butter. 42

GROUP 9.

81. Bretman, J. O., Readfield. Wool. 60
 82. Day, Prentiss, Kennebunk. Wool. 60
 83. Deane, C. H., Livermore Falls. Wool.
 60
 84. Flint, Geo., North Anson. Wool. 60
 85. Longley, J. B., Palmyra. Wool. 60
 86. Plummer, James, South Dover. Wool.
 60
 87. Porter, S. W., Houlton. Wool. 60

MASSACHUSETTS.

GROUP 1.

1. Allen, J. W., Amherst. Corn. 2
 2. Averill, Geo. L., North Andover. Corn.
 2
 3. Bancroft, Wm. L., Chesterfield. Corn.
 2
 4. Barlow, Henry, & Sons, Peru. Wheat. 1
 5. Bates, Edwin, Lynn. Corn. 2
 6. Benton, John B., Barre. Corn. 2
 7. Berry, Albert, North Andover. Corn. 2
 8. Bigelow, J. R. & D. F., Petershane.
a Corn. 2
b Oats. 3
 9. Birnie, Chas. A., Longmeadow. Corn.
 2
 10. Boutwell, Wm. L., Leverett. Corn. 2
 11. Bradford, Ralph H., South Egremont.
 Buckwheat. 7
 12. Buell, C. L., Ludlow. Corn. 2
 13. Busby, Leon M., Monterey. Corn. 2
 14. Carpenter, G. H., South Hadley.
 Grasses. 8
 15. Cowles, Oliver, Amherst. Corn. 2
 16. Crabtree, Sumner, Natick. Corn. 2
 17. Cutting, Walter, Pittsfield.
a Corn. 2
b Oats. 3
c Buckwheat. 7
d Grasses. 8

18. Deming, Amos, Savoy.
a Corn. 2
b Oats. 3
c Barley. 4
d Grass. 8
 19. De Wolf, Geo. H., Mendon. Corn. 2
 20. Dickinson, F. M. & Son, Belcher-
 town. Corn. 2
 21. Dillon, J. C., Amherst. Corn. 2
 22. Dodge, Wm. H., Cheshire. Corn. 2
 23. Fairbanks, Chas. W., Charemont
 Corn. 2
 24. Fisher, E. N., Ludlow. Corn. 2
 25. Flanders, Albert J., Chilmark. Corn. 2
 26. Frissell, D. & Sons., Peru.
a Wheat. 1
b Oats. 3
c Barley. 4
d Buckwheat. 7
 27. Frissell, Homer, Peru. Oats. 3
 28. Frissell, John, Peru. Barley. 4
 29. Frissell, John Z., Peru. Oats. 3
 30. Goddard, Mrs. M. T., Newton. Corn. 2
 31. Gulliver, J. F., Andover. Corn. 2
 32. Hayward, Monroe, Agawam. Corn. 2
 33. Holcomb, Geo. W., Chester. Oats. 3
 34. Judd, C. A., South Hadley. Corn. 2
 35. Kellogg, Frank N., Sheffield. Rye. 5

UNITED STATES.

36.	Kent, G. L., Belchertown.		63.	Smith, Asa, Chilmark.	Corn.	2
	<i>a</i> Corn.	2	64.	Smith, C. K., Sunderland.	Corn.	2
	<i>b</i> Buckwheat.	7	65.	Smith, H. B., & Son, Chesterfield.	Corn.	2
37.	Kent, G. S., Belchertown.		66.	Smith, Newton, South Hadley.	Corn.	2
	<i>a</i> Oats.	3	67.	Squires, E. S., Worthington.		3
	<i>b</i> Grasses.	8		<i>a</i> Oats.		3
38.	Kindley, S. K., Spencer.	Grass.		<i>b</i> Buckwheat.		7
39.	Kingsley, H. H., Spencer.	Buckwheat.	68.	Stebbins, C. E., South Deerfield.		1
		2		<i>a</i> Wheat.		2
40.	Larkin, C. B., Buckland.	Corn.		<i>b</i> Corn.		2
41.	Lawton, Charles, Leverett.	Corn.		<i>c</i> Oats.		3
42.	Leonard, Spencer, Bridgewater.	Corn.		<i>d</i> Barley.		4
		2		<i>e</i> Rye.		5
43.	Lincoln, F. W., Oakham.	Rye.	69.	Tyler, M. H., Greenfield.	Corn.	2
44.	Lincoln, H. W., Oakham.		70.	Warren, Edward, Spencer.	Corn.	2
	<i>a</i> Corn.	2	71.	Williams, F. R., Sunderland.	Corn.	2
	<i>b</i> Buckwheat.	7				
45.	Longfellow, Andrew S., Groveland.	Corn.				
		2				
46.	Massachusetts Agricultural College,					
	Amherst.					
	<i>a</i> Corn.	2				
	<i>b</i> Rye.	5				
47.	McIntosh, Wm. W., Nantucket.					
	<i>a</i> Corn.	2				
	<i>b</i> Oats.	3				
48.	Newton, N. Clark., North Hadley.					
	Corn.	2				
49.	Nichols, H. W., Sturbridge.					
	<i>a</i> Oats.	3				
	<i>b</i> Barley.	4				
	<i>c</i> Rye.	5				
50.	Osborne, L. T., Alford.	Corn.				
51.	Parker, Geo. M., New Lenox.					
	<i>a</i> Corn.	2				
	<i>b</i> Oats.	3				
52.	Pease, Jerome, Wilbraham.					
	<i>a</i> Corn.	2				
	<i>b</i> Oats.	3				
53.	Pheips, Martin A., Blandford.	Corn.				
54.	Plantiff, F. L., Belchertown.	Corn.				
55.	Pratt, Preston, South Weymouth.					
	Corn.	2				
56.	Randall, Eugene, Belchertown.	Corn.				
		2				
57.	Randall, N., & Son, Belchertown.					
	Corn.	2				
58.	Randolph, A. A., Mendon.	Corn.				
59.	Rogers, George A., North Andover.					
	Corn.	2				
60.	Ryan, Patrick, No. Hadley.	Corn.				
61.	Sanderson, H. G., Sunderland.	Corn.				
62.	Sanford, E. B., Belchertown.					
	<i>a</i> Corn.	2				
	<i>b</i> Barley.	4				

MINNESOTA.

GROUP 1.

1. Alrich, J. F., Worthington. Wheat.	1	24. Muckenhiem, John, Delano. Corn.	2
2. Anderson, Louis, Norcross. Wheat.	1	25. Nash, P. F., Nashua. Wheat.	1
3. Arnold, Adam, Mankato. Corn.	2	26. Nin, P. O., Porter. Corn.	2
4. Bass, J. J., Rosetown. Corn.	2	27. Pearce, M., Chouen. Corn.	2
5. Bender, John, Chaska. Corn.	2	28. Perkins, Hartson E., Red Wing.	3
6. Boynton, L. J., Red Wing. Wheat.	1	Oats.	3
7. Bredold, L. L., Springfield. Corn.	2	29. Peterson, August, Red Wing.	
8. Brian, J. H., Burnside.		a Wheat.	1
a Wheat.	1	b Corn.	2
b Barley.	4	c Barley.	4
9. Brian, T. J., Red Wing.		30. Poe, W. E., Stanton.	
a Wheat.	1	a Wheat.	1
b Barley.	4	b Corn.	2
c Rye.	5	31. Purdy, David, Red Wing. Corn.	2
10. Brules, N., Mankato. Oats.	3	32. Quinn, Andrew, Litchfield. Wheat.	1
11. Buffrem, J. W., Owatonna. Wheat.	1	33. Reuther, Wm., Red Wing. Rye.	5
12. Chambers, Willis, Havana.		34. Richardson, Charles, Featherstone.	1
a Wheat.	1	Wheat.	1
b Oats.	3	35. Savselle, Charles, Olivia. Corn.	2
c Barley.	4	36. Schwamm, John, Rose Creek. Corn.	2
d Clover seed.	9	37. Smith, W. H., Farmington. Corn.	2
13. Crandall, J. C., Red Wing.		38. Tombler, L. O., Wyoming. Corn.	2
a Wheat.	1	39. West, James I., Leaf Valley.	
b Corn.	2	a Wheat.	1
14. Dalton, Chas. H., Wrightstown.	2	b Corn.	2
Corn.	2	c Barley.	4
15. Dick, Francis, Afton.		d Millet.	8
a Wheat.	1	40. Wilkenson, George, Baloton. Corn.	2
b Corn.	2	41. Zeneigo, Anton, Hay Creek. Wheat.	1
c Oats.	3	42. Engberg, Peter S., Richwood.	
d Barley.	4	Wheat.	1
e Rye.	5		
16. Hanson, Peter E., Litchfield.			
a Wheat.	1		
b Barley.	4		
17. Harris, J. A., Owatonna.			
a Barley.	4		
b Hay seed.	8		
18. Hoard, E. H., Red Wing. Wheat.	1		
19. Johnson, John C., Ellsborough.	2		
Corn.	2		
20. Kilen, A. R., Brownsburg.			
a Wheat.	1		
b Corn.	2		
21. Kinchebecker, W. R., Owatonna.			
Rye.	5		
22. Larson, Emil, Sabin. Corn.	2		
23. Lovell, F. R., Vernon Centre. Corn.	2		

GROUP 4.

43. Bass, J. J., Rosetown.	
a Potatoes.	28
b Onions.	30
44. Best, W. S., St. Paul. Potatoes.	28
45. Pearce, M., Chouen. Potatoes.	28

GROUP 5.

46. Burtzlaff, Paul, Stillwater. Beans.	32
47. Chambers, Willis, Havana. Beans.	32
48. Fisher, A., Owatonna. Beans.	32

GROUP 9.

49. Holmes, Mrs. V. C., Owatonna. Flax seed.	59
50. Kilen, A. R., Brownsburg. Flax.	59
51. Oliver, M. H., Winnebago. Flax.	59

MISSOURI.

GROUP 1.

1. Adams, John, Warrensburg. Wheat.	1	5. Alrich, John, Maxville. Corn.	2
2. Agricultural College of Missouri.		6. Anchor Ranch, Farmington. Wheat.	1
a Wheat.	1	7. Aron & Thurmond, Fulton. Wheat.	1
b Corn.	2	8. Baker, Chas. L., Sikeston. Wheat.	1
c Grasses.	8	9. Baker, Jos., Sikeston. Wheat.	1
d Forage plants.	9	10. Beckwith, Thos., Charleston. Wheat.	1
3. Allen, Wm., Callaway. Wheat.	1		
4. Alliot, Louis, Platte City. Hay.	8	11. Bellamy, Jas., Fulton.	
		a Oats.	3
		b Hay.	8

UNITED STATES.

12. Blank, Peter, Jefferson. Wheat.	1	56. Guignon, E. S., Normandy.	
13. Bloomberg, Louis, Jackson.		<i>a</i> Wild rye.	5
<i>a</i> Wheat.	1	<i>b</i> Grasses.	8
<i>b</i> Grass.	8	<i>c</i> Clover.	9
14. Bluhm, Chas., Holden. Wheat.	1	57. Hale, Jas. S., Oran. Wheat.	1
15. Boles, Chas., Warrensburg. Wheat.	1	58. Hammond, J. C., Platte City. Corn.	2
16. Bouche, Wm., St. Louis. Grasses.	8	59. Hammond, Mrs. T. C., Platte City.	
17. Bowles, Jos., Fenton. Grass.	8	Oats.	3
18. Boyd, L. C., Callaway. Wheat.	1	60. Hancock, Wm. I., Platte City. Corn.	2
19. Brady, Thos., Schell City. Corn.	2	61. Harbaugh, Wm., Liberty. Millet.	8
20. Brown, F. C., Schell City. Corn.	2	62. Harris, J. C., Charleston. Wheat.	1
21. Brush, B. F., Independence. Grass.	8	63. Harris & Schiffer, Fulton. Wheat.	1
22. Bundschutz, Josephine, Fenton.		64. Hass, Wm., Cedar City. Wheat.	1
<i>a</i> Rye.	5	65. Henry, L. P., St. Charles. Wheat.	1
<i>b</i> Clover.	9	66. Herndon, Jos., Platte City. Hay.	8
23. Byers, C. F., Callaway. Wheat.	1	67. Hern, Mrs. M. J., Carsonville. Rye.	5
24. Canaves, S. A., Lutesville.		68. Hibbard, D. M., Canton. Wheat.	1
<i>a</i> Oats.	3	69. Hillix, Alfred, Independence. Millet.	9
<i>b</i> Hay.	8	70. Hinkle, T. F., Oran. Wheat.	1
25. Carpenter, H. M., Schell City. Hay.	8	71. Hodges, C. B., Platte City. Wheat.	1
26. Charleton, Wm., Independence. Corn.	2	72. Hodges, R. T., Platte City. Wheat.	1
27. Clark, J. F., Richmond. Wheat.	1	73. Horne, Jesse J., Marble Hill. Grass.	8
28. Clark, Jos., Platte City. Corn.	2	74. Howard, Hiram, Marshall. Corn.	2
29. Clarkson, Chas., Charleston. Wheat.	1	75. Howard, J. H., Fulton. Hay.	8
30. Cochrell, Thos. G., Platte City. Mil-		76. Huffman, Phillip, Schell City. Oats.	3
let.	8	77. Jack, Jno. Wm., Platte City.	
31. Coffey, E. McD., Platte City. Corn.	2	<i>a</i> Wheat.	1
32. Conrad, Jacob J., Marble Hill.		<i>b</i> Hay.	8
<i>a</i> Wheat.	1	78. James, Thos., Palmyra. Oats.	3
<i>b</i> Oats.	3	79. Jones, T. L. P., Platte City. Grass.	8
<i>c</i> Grass.	8	80. Kayger, Miss Agnes, Fulton. Oats.	3
33. Cornthwaith, A., Richmond.		81. Kell, D. W., Richmond. Wheat.	1
<i>a</i> Wheat.	1	82. Kennedy, M., Palmyra. Oats.	3
<i>b</i> Grass.	8	83. Kennedy, Sam, Richmond. Wheat.	1
34. Dawson, John, Johnson. Wheat.	1	84. Kimball & Thomas, Platte City. Hay.	8
35. Deal Bros., Charleston. Wheat.	1	85. Kimbrough, Wm., Richmond. Wheat.	1
36. Dehner, John, Canton. Wheat.	1	86. Kline Bros., Platte City. Wheat.	1
37. Dennis, John, Fenton. Rye.	5	87. Lease, Samuel, Fulton.	
38. Duck, O., Schell City. Oats.	3	<i>a</i> Wheat.	1
39. Dunkan, Mrs. Henry, Carsonville.		<i>b</i> Hay.	8
Wheat.	1	88. Leggeth, J. B., Palmyra.	
40. Dye, Chas., Platte City. Grass.	8	<i>a</i> Grass.	8
41. Emerson, Robt. E., Oregon. Wheat.	1	<i>b</i> Clover.	9
42. Erwin, J. S., Kirksville. Teosinte.	8	89. Lentz, Theo., Platte City. Wheat.	1
43. Faris, H. P., Clinton. Hay.	8	90. Lewis, John, Platte City. Millet.	8
44. Farner, Harrison G., Platte City. Corn.	2	91. Lewis, Robt., Platte City. Oats.	3
45. Farner, H. D., Platte City. Blue-		92. Lovelady, A. J., Platte City. Wheat.	1
grass.	8	93. Majors, Thomas, Oran. Wheat.	1
46. Fennelly, Thomas, Normandy. Corn.	2	94. Masters, Andrew, Marble Hill.	
47. Festch, Jacob, St. Charles. Wheat.	1	Wheat.	1
48. Fleshman, Wm., Platte City. Oats.	3	95. Maus, Jacob, Schell City. Corn.	2
49. Folk, Geo., Richmond.		96. Maus, L. R., New London. Clover.	9
<i>a</i> Wheat.	1	97. Mayfield, L., Callaway. Wheat.	1
<i>b</i> Rye.	5	98. McCracken & Hunter, Fulton. Hay.	8
<i>c</i> Clover.	9	99. McMonigle, Wm. H., Platte City.	
50. Geiger, Lorens, Carsonville.		Hay.	8
<i>a</i> Barley.	4	100. Michel, E., St. Louis. Grasses.	8
<i>b</i> Rye.	5	101. Miller, Charles, St. Louis. Corn.	2
51. Gentry, N. H., Sedalia.		102. Montgomery, Wm., Platte City.	
<i>a</i> Grass.	8	Corn.	2
<i>b</i> Clover.	9	103. Moran, Thos., Platte City. Wheat.	1
52. Goodnight, Asbury, Sedalia. Hay.	8	104. Morehouse, S. F., Canton. Wheat.	1
53. Goodwin, Edwin, Warrensburg.		105. Morton, T. J., Lewis. Wheat.	1
Wheat.	1	106. Mosher, Mrs. L. V., Lewis. Wheat.	1
54. Greer, M., Tarkio. Wheat.	1	107. Murdock, Jos., Platte City. Hay.	8
55. Gretemier, Steven, Bridgetown.		108. Murray, N. F., Oregon. Grass.	8
<i>a</i> Wheat.	1	109. Myers, Matthew, Oran. Wheat.	1
<i>b</i> Grass.	8	110. Norton, Wm. R., Schell City. Corn.	2

DEPARTMENT A.—AGRICULTURE.

111. Ohmes, Frank, St. Charles. Wheat.	1	148. Walter, Jos., Platte City.	
112. Patchen, J., Platte City. Wheat.	1	<i>a</i> Rye.	5
113. Peacock, George, Fulton. Grass.	8	<i>b</i> Hay.	8
114. Peterson, Wm. M., Jackson.		149. Walters, Wm. G., New London.	
<i>a</i> Wheat.	1	<i>a</i> Wheat.	1
<i>b</i> Oats.	3	<i>b</i> Oats.	3
<i>c</i> Rye.	5	150. Waters, L., Canton. Millet.	8
<i>d</i> Grass.	8	151. Wells, Henry, Platte City. Wheat.	1
<i>e</i> Clover.	9	152. Whalen, Luntun N., Holden. Corn.	2
115. Pfeifer, Conrad, Fenton. Hay.	8	153. Whitely, B. F., Platte City. Wheat.	1
116. Pope, Jas. I., Platte City. Corn.	2	154. Wiechens, F., St. Charles. Wheat.	1
117. Renoe & Shelly, Fulton. Oats.	3	155. Williams, Jno. M., Warrensburg.	
118. Rosenburger, John, Platte City.		Wheat.	1
Corn.	2	156. Wills, Harrison, Platte City. Corn.	2
119. Roth, Geo. H., Jackson.		157. Wills, John, Platte City. Wheat.	1
<i>a</i> Wheat.	1	158. Wilson, H. C., New London.	
<i>b</i> Rye.	5	<i>a</i> Wheat.	1
120. Rothick, Juno, Richmond. Wheat.	1	<i>b</i> Hay.	8
121. Scarce, A. S., Platte City.			
<i>a</i> Wheat.	1	GROUP 3.	
<i>b</i> Oats.	3	159. Agricultural College of Missouri,	
122. Schmidt, Herman, Callaway. Wheat.	1	Boone County. Sorghum (30 varieties).	24
123. Schulte, Judge, Farmington. Wheat.	1	160. McMaster, M., Schell City. Sor-	
124. Sessinghaus, Fred, Carsonville.		ghum.	24
<i>a</i> Oats.	3	161. McNorton, E. H., Schell City. Sor-	
<i>b</i> Millet.	8	ghum.	24
125. Settle, Jesse, Platte City. Wheat.	1	162. Mitchell, J. G., Atherton. Sor-	
126. Settle, Wm., Oran. Wheat.	1	ghum.	24
127. Shepard, N. J., Olden. Wheat.	1		
128. Smart, D. C., Callaway. Wheat.	1	GROUP 5.	
129. Smith, J. M., New London. Grass.	8	163. Bell, F. M., Independence. Broom	
130. Smith, J., Woodson, Marysville.		corn.	32
Corn.	2	164. Dallas, Thos., Schell City. Broom	
131. Steele, Geo., New Madrid. Corn.	2	corn.	32
132. Steele & Blanchard, Oregon. Grass.	8	165. Greenland & Knapp, Green Ridge.	
133. Sterzing, Waldemar, Fenton. Sun-		Broom corn.	32
flower and clover.	9	166. Null, Thos., Green Ridge. Broom	
134. Stubblefield, Wm. H., Oran. Clover.	9	corn.	32
135. Tanner, Emiel, Sikeston. Wheat.	1	167. Reed, Nathan, Green Ridge. Broom	
136. Terrill, Jeremiah, Holden. Wheat.	1	corn.	32
137. Thurman, E. J., Fenton.		168. Rogers, G. A., Schell City. Castor	
<i>a</i> Wheat.	1	beans.	32
<i>b</i> Clover.	9	169. Wadleigh, Everett, Green Ridge.	
138. Thurman, G. F., Fenton. Wheat.	1	Broom corn.	32
139. Tilden, J., Tipton.		170. Williams, Chas., Independence.	
<i>a</i> Rye.	5	Broom corn.	32
<i>b</i> Hay.	8		
140. Torp, Charles, Platte City.		GROUP 8.	
<i>a</i> Wheat.	1	171. Agricultural College of Missouri,	
<i>b</i> Grass.	8	Boone County. Tobacco (32 varieties).	48
141. Tremburger, A. D., Fulton. Wheat.	1	172. Craighead, W. R., Fulton. To-	
142. Turbon, G. L., Holden. Corn.	2	bacco.	48
143. Tyler, John, Fulton. Hay.	8	173. Sitton, T. J., Fulton. Tobacco.	48
144. Tyler, Robt., Schell City. Corn.	2		
145. Walker, Ira, Platte City. Wheat.	1	GROUP 9.	
146. Waller, E. V., Platte City. Corn.	2	174. Corkins, J. W., Nevada. Flax.	59
147. Walschlager, Jacob, Georgetown.		175. Farner, H. D., Platte City. Flax.	59
Grass.	8	176. Peters, N. G., Schell City. Flax	
		seed.	59
		177. Stirzing, Waldemar, Fulton. Hemp.	59

MONTANA.

GROUP 1.

1. Alford, W. H., Stevensville. Wheat.	1	33. Clausen, Thomas, Fish Creek. Wheat.	1
2. Allard, Wm. L., Laurel. Oats.	3	34. Clemont, M., Frenchtown. Wheat.	1
3. Amsden, D., Laurine. Oats.	3	35. Cline, V. E., Bozeman.	
4. Anderson, August, Fish Creek. Wheat.	1	<i>a</i> Wheat.	1
5. Austin, A. A., Missoula. Oats.	3	<i>b</i> Oats.	3
6. Babcock, L. F., Billings. Oats.	3	<i>c</i> Barley.	4
7. Baily & O'Donnell, Billings.		<i>d</i> Hay.	8
<i>a</i> Wheat.	1	36. Cobb, Jno. M., Stevensville.	
<i>b</i> Oats.	3	<i>a</i> Wheat.	1
<i>c</i> Blue joint and timothy hay.	8	<i>b</i> Oats.	3
<i>d</i> Alfalfa.	9	<i>c</i> Barley.	4
8. Baker, Thos. W., Stevensville.		37. Collins, C. C., Hillsdale. Wheat.	1
<i>a</i> Oats.	3	38. Connor, J. P., Smith River. Oats.	3
<i>b</i> Timothy hay.	8	39. Corwin, W. S., Philbrook. Wheat.	1
<i>c</i> Red clover.	9	40. Cramer Bros., Laurel. Oats.	3
9. Ballard, Geo., Townsend. Oats.	3	41. Crawford Bros., Shawmut.	
10. Baltasor, Julius, Mountain Side. Blue joint and bunch grass.	8	<i>a</i> Oats.	3
11. Banford, Jacob T., Laurel. Oats.	3	<i>b</i> Barley.	4
12. Barkell, James, Twin Bridges. Oats.	3	<i>c</i> Blue stem grass.	8
13. Bealingburg, N., Race Track.		<i>d</i> Alfalfa.	9
<i>a</i> Wheat.	1	42. Cree, A. M., Miles City. Corn.	2
<i>b</i> Timothy hay.	8	43. Cunningham, Hy., Monarch. Oats.	3
14. Beall, John, Fish Creek. Wheat.	1	44. Cyr, Elói, Grass Valley. Oats.	3
15. Birely, Wm., Billings. Wheat.	1	45. Cyr, J. E., Grass Valley. Oats.	3
16. Bisel, Ben, Bozeman.		46. Daly, Marcus, Hamilton. Oats.	3
<i>a</i> Oats.	3	47. Danforth, Ezra, Missoula. Oats.	3
<i>b</i> Timothy hay.	8	48. Danis, Henry, Billgrade. Barley.	4
17. Bode, Wm., Laurel. Buckwheat.	7	49. Davis, L. M., Lo Lo. Wheat.	1
18. Bouchard, Alf., Careless Creek.		50. Daws, J. S. & J. W., Salesville. Barley.	4
<i>a</i> Oats.	3	51. Dean, George, Townsend. Alfalfa.	9
<i>b</i> Barley.	4	52. DeLong, Alex., Missoula. Corn.	2
19. Bozeman Milling Co., Gallatin Valley. Flour.	11	53. Deschamps, Caspar, Grass Valley.	
20. Brooing, John, Bozeman. Wheat.	1	<i>a</i> Wheat.	1
21. Brooks, J. W., Sheridan.		<i>b</i> Oats.	3
<i>a</i> Wheat.	1	<i>c</i> Rye.	5
<i>b</i> Oats.	3	<i>d</i> Timothy and red top hay.	8
<i>c</i> Grasses.	8	54. Deschamps, R., Grass Valley.	
22. Broomfield, Mrs. John, Bozeman.		<i>a</i> Wheat.	1
<i>a</i> Wheat.	1	<i>b</i> Oats.	3
<i>b</i> Oats.	3	55. Dukes, Mrs. Ed., Missoula.	
23. Bruckertt, A., White Sulphur Springs. Oats.	3	<i>a</i> Wheat.	1
24. Buchanan, A. S., Stevensville.		<i>b</i> Oats.	3
<i>a</i> Wheat.	1	<i>c</i> Timothy hay.	8
<i>b</i> Oats.	3	56. Eldred, C., Twin Bridges. Oats.	3
25. Byard, John, White Sulphur Springs. Timothy hay.	8	57. Emil, Peter, Bozeman.	
26. Caldwell, Wm., Bozeman.		<i>a</i> Wheat.	1
<i>a</i> Wheat.	1	<i>b</i> Oats.	3
<i>b</i> Oats.	3	58. Federsohn, Peter, Missoula. Corn.	2
<i>c</i> Barley.	4	59. Fergerson, M. M., Bozeman. Barley.	4
27. Carney, M., Sheridan. Oats.	3	60. Fergerson, V. M., Bozeman. Wheat.	1
28. Carney, P., Twin Bridges.		61. Flanagan, Michael, Billings. Wheat.	1
<i>a</i> Wheat.	1	62. Flanery Bros., Bozeman. Barley.	4
<i>b</i> Oats.	3	63. Fleming, T. J., Fort Logan. Bunch grass hay.	8
29. Carwin, W. S., Philbrook. Oats.	3	64. Foley, Thos., Missoula. Wheat.	1
30. Catlin Bros., White Sulphur Springs. Timothy hay.	8	65. Foster, Frank, Fish Creek. Oats.	3
31. Catlin, Geo., White Sulphur Springs. Timothy hay.	8	66. Foster, Z. D., Fish Creek. Oats.	3
32. Chaffee, Chas. M., Billings. Oats.	3	67. Fostle, William, Sheridan. Grasses.	1
		68. Fowler, Samuel, Bozeman.	
		<i>a</i> Oats.	3
		<i>b</i> Barley.	4

DEPARTMENT A.—AGRICULTURE.

69. Fruin, Thos., Stevensville.		104. Lavassune, Mrs. C., Missoula.	
<i>a</i> Wheat.	1	Wheat.	1
<i>b</i> Oats.	3	105. Lee, Daniel, Bozeman. Wheat.	1
<i>c</i> Red top, blue joint and timothy hay.	8	106. Longman, S. E., Bozeman. Oats.	3
70. Gibson, M., Maiden. Wheat.	1	107. Long, Samuel E., Bozeman.	
71. Gibson, Paris, Great Falls. Wheat.	1	<i>a</i> Wheat.	1
72. Gorman, M., Maiden.		<i>b</i> Barley.	4
<i>a</i> Wheat.	1	108. Lott, Bros., Twin Bridges.	
<i>b</i> Oats.	3	<i>a</i> Oats.	3
<i>c</i> Alfalfa.	9	<i>b</i> Grasses.	3
73. Goetchous, Abe, Sheridan. Oats.	3	109. Lovell, Phillip, Beaver Head. Oats.	3
74. Gunton, Mathew, Careless Creek.		110. Manhattan Malting Co., Manhattan.	
Oats.	3	Barley.	4
75. Hackie, D., Victor.		111. Mardes, James, Bozeman. Oats.	3
<i>a</i> Wheat.	1	112. Marks, J. R., Townsend. Oats.	3
<i>b</i> Oats.	3	113. Marseau, Z., Frenchtown. Wheat.	3
<i>c</i> Timothy seed.	8	114. Massing, Ed., Careless Creek.	
<i>d</i> Clover.	9	<i>a</i> Oats.	3
76. Hall, Lem., Twin Bridges.		<i>b</i> Timothy hay.	8
<i>a</i> Wheat.	1	115. Mathews, Scott, Bozeman. Oats.	3
<i>b</i> Oats.	3	116. Maver, Chancy, Miles City. Oats.	3
77. Harder, J. P., Bozeman. Barley.	4	117. McClain, T. A., Carleton.	
78. Harmison, William, Laurel. Corn.	2	<i>a</i> Wheat.	1
79. Harrety, Robt., Fish Creek. Oats.	3	<i>b</i> Oats.	3
80. Harry, J. T., White Sulphur Springs.		<i>c</i> Timothy hay.	8
<i>a</i> Oats.	3	118. McDonald, John, Bozeman.	
<i>b</i> Timothy hay and blue joint grass.	8	<i>a</i> Wheat.	1
81. Hedges, W. A., Careless Creek. Blue stem grass.	8	<i>b</i> Oats.	3
82. Hickman, R. O., Sheridan. Oats.	3	119. McKinzie, George E., Bozeman. Red top and timothy hay.	8
83. Hobson, S. S., Philbrook. Alfalfa.	9	120. Menefee, R. P., Bozeman. Oats.	3
84. Hoffman, C. W., Bozeman.		121. Millard, Hy., Belt. Corn.	2
<i>a</i> Oats.	3	122. Miller, Luther, Stevensville. Wheat.	1
<i>b</i> Barley.	4	123. Mitchell, Sydney, Missoula. Wheat.	1
85. Hogan, Philip, Missoula. Wheat.	1	124. Moore, P. J., Martinsville. Blue joint grass.	8
86. Hogan, P., Missoula.		125. Murray, Wm., Bilgrade. Wheat.	1
<i>a</i> Wheat.	1	126. Myers, Alfred, Shealds River.	
<i>b</i> Oats.	3	<i>a</i> Wheat.	1
87. Holland, Andrew, White Sulphur Springs.		<i>b</i> Oats.	3
<i>a</i> Wheat.	1	127. Myers, Wm., Salesville. Rye.	5
<i>b</i> Timothy hay.	8	128. Norton, George, Townsend. Barley.	4
88. Holmes, Charles, Bozeman.		129. Nutting, Lucius A., Laurel. Alfalfa.	9
<i>a</i> Oats.	3	130. Storey, Nelson & Co., Gallatin Valley. Flour.	11
<i>b</i> Barley.	4	131. O'Brien Bros., Bozeman. Wheat.	1
89. Hopple, Samuel J., Billings.		132. O'Donnell, Ed., Billings.	
<i>a</i> Wheat.	1	<i>a</i> Corn.	2
<i>b</i> Buckwheat.	7	<i>b</i> Oats.	3
90. Hoy, Chas., Bozeman. Barley.	4	133. O'Keefe, D. C., Missoula.	
91. Huffine, J. D., Bozeman.		<i>a</i> Wheat.	1
<i>a</i> Oats.	3	<i>b</i> Oats.	3
<i>b</i> Timothy and red top hay.	8	134. Omarr, John, White Sulphur Springs.	
92. Huffman, Mart., Bozeman. Wheat.	1	Native grass hay.	8
93. Jordan, W. B., Miles City. Oats.	3	135. Owsley, Wm., Sheridan. Oats.	3
94. Jordan, W. D., Miles City. Wheat.	1	136. Paige, R. W., Twin Bridges.	
95. Kellett, Francis, Billings. Corn.	2	Grasses.	8
96. Kelly, Wm., Missoula. Wheat.	1	137. Parker, W. P., Billings. Oats.	3
97. Kennedy, Wm., Missoula.		138. Patterson, J. L., Canton.	
<i>a</i> Wheat.	1	<i>a</i> Wheat.	1
<i>b</i> Oats.	3	<i>b</i> Barley.	4
98. Kercher, Michael, Miles City.		139. Paulin, Isaac, Frenchtown.	
<i>a</i> Corn.	2	<i>a</i> Wheat.	1
<i>b</i> Alfalfa.	9	<i>b</i> Oats.	3
99. Koch, John, Bozeman. Oats.	3	140. Pease, D. A., Twin Bridges.	
100. Kramer, Martin, Bearmouth. Timothy hay.	8	<i>a</i> Oats.	3
101. Kramer, Martin, Bonita. Oats.	3	<i>b</i> Flour.	11
102. Lancy & Kirkenhall, Three Forks. Oats.	3	141. Pickering, J. G., Canton. Barley.	4
103. Latimer, J. R., Grass Valley.		142. Pickering, J. J., Canton. Wheat.	1
<i>a</i> Wheat.	1	143. Rader, C. T., Fort Logan. Red top and blue joint grass.	8
<i>b</i> Timothy hay.	8	144. Ray, Emby, Bozeman. Oats.	3

UNITED STATES.

145.	Reed, W. H., Carleton.		176.	Weaver, Chancy, Miles City.	
	a Wheat.	1		a Wheat.	1
	b Oats.	3		b Corn.	2
	c Millet.	8		c Oats.	3
146.	Reeves, George P., Townsend. Blue joint grass and timothy hay.	8	177.	Weinbour, Frank, Bozeman. Wheat.	1
147.	Reeves, J. G., Bozeman. Wheat.	1			
148.	Riggan, F. A., Fish Creek. Wheat.	1	178.	Welch, Wm., Bozeman.	
149.	Rose, Charles, Frenchtown. Wheat.	1		a Wheat.	1
150.	Roso, Ed., Careless Creek. a Wheat.	1		b Oats.	3
	b Oats.	3	179.	West, D. H., Townsend. Oats.	3
151.	Roso, John, Careless Creek. Timothy hay.	8	180.	White, Alex., Missoula. a Wheat.	1
152.	Roy, Mrs. Emily, Bozeman. Wheat.	1		b Oats.	3
153.	Sales, Charles, Salesville. a Wheat.	1	181.	White, George H., Missoula. a Wheat.	1
	b Barley.	4		b Oats.	3
154.	Shaffer, Peter, Frenchtown. Oats.	3		c Rye.	5
155.	Shaughnessy, John B., Missoula. Oats.	3	182.	White, G. H., Missoula. Oats.	3
156.	Sherman, Charles, White Sulphur Springs. Timothy hay.	8	183.	Whitesides, Andrew, Bonita. Oats.	3
157.	Sidensticker, John, Twin Bridges. Oats.	3	184.	Wickham, George, Fish Creek. a Sweet corn.	2
158.	Simpson, James W., Stevensville. Oats.	3		b Oats.	3
159.	Smith Bros., Martinsdale. Oats.	3	185.	Winters, Chas., Missoula. Oats.	3
160.	Smith, M., Maiden. Wheat.	1	186.	Vantine, H., Bozeman. Wheat.	1
161.	Spooner, Jos., Stevensville. Wheat.	1	187.	Wyhn, John, Bozeman. Wheat.	1
162.	Spurgin, Wm., Missoula. a Wheat.	1	188.	Wyrock, J., Twin Bridges. Barley.	4
	b Oats.	3			
	c Rye.	5			
	d Timothy hay.	8			
163.	Stafford, J. T., Cañon Ferry. Corn.	2			
164.	Stoltz, Frank J., Park City. Oats.	3			
165.	Stone, R. H., Red Bluffs. Rye.	5			
166.	Strong, Wm., Miles City. Corn.	2			
167.	Stuart, A., Townsend. Blue joint grass.	8			
168.	Sutherlin Bros., White Sulphur Springs. Barley.	4			
169.	Thomas Bros., Sheridan. a Oats.	3			
	b Grasses.	8			
170.	Thompson, Thomas, Townsend. Oats.	3			
171.	Tinsley, J. W., Canton. Popcorn.	2			
172.	Titman, J., Fosston. Oats.	3			
173.	Warner, M., Maiden. Wheat.	1			
174.	Waterman, C. H., Bozeman. Oats.	3			
175.	Wearwood, Wm., Courts. Wheat.	1			

NEW HAMPSHIRE.

GROUP 1.

1.	Abbott, S. R., Wilton.	Rye.	5
2.	Abbott, Stanley H., East Wilton.		
	Corn.		
3.	Ayers, A. R., North Boscawen.	Rye.	5
4.	Bacon, E. A., Warner.	Corn.	2
5.	Barret Bros., Newport.	Corn.	2

6.	Batchelder, R. N. S., Northfield.	
	<i>a</i> Wheat.	1
	<i>b</i> Barley.	4
	<i>c</i> Rye.	5
	<i>d</i> Timothy.	8
7.	Bean, Walter M., Sanbornton.	
	Corn.	2
8.	Benton, William P., Lebanon. Corn.	2

UNITED STATES.

102. Pulsifer, Thomas S., Campton. Maple sugar and syrup.	21
103. Quimby, Alfred, Sandwich. Maple sugar and syrup.	21
104. Quimby, H. H., Sandwich. Maple sugar and syrup.	21
105. Quimby, John S., Sandwich. Maple sugar and syrup.	21
106. Quimby, Wm. F., Sandwich. Maple sugar and syrup.	21
107. Remick, Francis P., Samworth. Maple sugar and syrup.	21
108. Smart, C. C., Rumney. Maple sugar and syrup.	21
109. Smith, David, Freedom. Maple sugar and syrup.	21
110. Smith, Geo. H., Sandwich. Maple sugar and syrup.	21
111. Smith, Henry C., Holderness. Maple sugar and syrup.	21
112. Smith, Samuel B., Sandwich. Maple sugar and syrup.	21
113. Stickney, Wm. H., Campton. Maple sugar and syrup.	21

GROUP 5.

114. Bedell, C. W., Littleton. Pease.	32
115. Daniels, E. C., Plainfield. Pease.	32
116. Dickey, George P., South Acworth. Field beans.	32
117. Dunbar, L. D., Enfield. Field beans.	32
118. Foss, O. C., Plymouth. Field beans.	32

119. Meader, F. K., Rochester. Pease.	32
120. McDaniel, Charles, Springfield. Field beans.	32
121. McDuffee, J. A., Rochester. Field beans.	32
122. Miller, G. A., Lebanon. Field beans.	32
123. Perkins, Dexter J., Danbury. Field beans.	32
124. Perry, William H., Newport. Field beans.	32
125. Pulsifer, T. S., Campton. Pease.	32
126. Sanborn, Fred O., Pittsfield. Field beans.	32
127. Shaker Society, Enfield. Field beans.	32
128. Shaw, Ellen M., Northfield. Field beans.	32

GROUP 8.

129. Day, H. H., Hinsdale. Leaf tobacco.	48
130. Dix, Mrs. C., Hinsdale. Leaf tobacco.	48
131. Hooker, G. P., Hinsdale. Leaf tobacco.	48
132. Pike, W. N., Hinsdale. Leaf tobacco.	48
133. Slate, G. P., Hinsdale. Leaf tobacco.	48
134. Stearn, D. W., Hinsdale. Leaf tobacco.	48

NEW YORK.

GROUP 1.

1. Acer, V. A., Shelby Center. Wheat.	1
2. Ackley, H. Clay, Hubbardsville. Wheat.	1
3. Ainsburger, Taylor, Hopewell. Oats.	3
4. Aldrich, Charles H., Mattituck. a Corn.	2
b Oats.	3
5. Aldridge, A. G., Victor. a Wheat.	1
b Corn.	2
c Oats.	3
d Rye.	5
e Buckwheat.	7
6. Allen, Thomas, Chippewa Bay. Wheat.	1
7. Allis, Clark, Medina. Oats.	3
8. Amos, Benjamin, Millville. a Oats.	3
b Barley.	4
9. Andrews, John A., Knowlesville. Wheat.	1
10. Andrews, Joseph, Ithaca. Barley.	4
11. Andrews, William, Bristol. Barley.	4
12. Archer, G. W., Clifton Springs. Corn.	2
13. Ausley, Mark, Seneca Castle. Corn.	2
14. Austin, Ira, Lowville. Wheat.	1
15. Axtell, H. & F., Knowlesville. a Wheat.	1
b Corn.	2

16. Babcock & Burch, Brookville. Corn.	2
17. Bacon, T. A., Medina. Wheat.	1
18. Bagerly, B. W., Clifton Springs. a Wheat.	1
b Barley.	4
19. Baker, A. D., Aurelius. a Corn.	2
b Oats.	3
20. Baker, J. C., Aurelius. Wheat.	1
21. Baker, J. H., Aurelius. Barley.	4
22. Baldwin, L. M., Canandaigua. Wheat.	1
23. Balliet, N. F., McDougals. Wheat.	1
24. Barclay, Elmer, Lyons. Barley.	4
25. Barker, T. W., Clifton Springs. Wheat.	1
26. Barnes, William D., Middlehope. Corn.	2
27. Batchelor, Daniel, Utica. Grasses.	8
28. Bates, George, Cambria. Corn.	2
29. Beaver, Harry, Lyndonville. Wheat.	1
30. Beek, S., Lakeville. Oats.	3
31. Bellingier, J. C., Herkimer. Wheat.	1
32. Berryman, J. A., Geneva. a Corn.	2
b Oats.	3
33. Biglow, George, Belleville. Barley.	4
34. Black, W. F., Billsborough. a Wheat.	1
b Corn.	2
c Barley.	4

DEPARTMENT A.—AGRICULTURE.

35. Blanchard, Flint, Jamestown.		73. Connell, Frank, De Ruyter.	
<i>a</i> Wheat.	1	<i>a</i> Corn.	2
<i>b</i> Rye.	5	<i>b</i> Oats.	3
36. Blumenstock, John, Buel.		74. Cook, H. C., Dundee.	
<i>a</i> Corn.	2	<i>a</i> Wheat.	1
<i>b</i> Rye.	5	<i>b</i> Corn.	2
37. Bonnell, George A., Waterloo.		<i>c</i> Oats.	3
<i>a</i> Corn.	2	<i>d</i> Buckwheat.	7
<i>b</i> Oats.	3	75. Coolidge, Charles, Phelps.	
38. Bonnell, H. S., Waterloo.		<i>a</i> Corn.	2
<i>a</i> Wheat.	1	<i>b</i> Oats.	3
<i>b</i> Corn.	2	<i>c</i> Rye.	5
<i>c</i> Barley.	4	76. Coon, Alexander, Medina.	
<i>d</i> Buckwheat.	7	<i>a</i> Wheat.	1
39. Bowen, H. S., Newport. Corn.	2	<i>b</i> Corn.	2
40. Boyce, E. W., Schoharie. Wheat.	1	<i>c</i> Barley.	4
41. Bradley J. D. Lyons. Barley.	4	77. Coon, U. G., Medina.	
42. Brewer, Edgar, Enfield Centre. Oats.	3	<i>a</i> Wheat.	1
	2	<i>b</i> Oats.	3
43. Briglin, Edward, Orleans. Corn.	2	<i>c</i> Barley.	4
44. Brown, John, Warsaw. Oats.	3	78. Coon, William, Penn Yan. Wheat.	1
45. Brumaghin, A., Fonda. Corn.	2	79. Corey, Amelia, West Fayette. Bar-	
46. Brundage, A. C., Bath. Wheat.	1	<i>ley</i> .	4
47. Bryan, George, Savona. Corn.	2	80. Cornish, Hiram, Newfield. Wheat.	1
48. Buchan, W. S., Hopewell Centre.		81. Corwin, O., Phelps. Oats.	3
<i>a</i> Corn.	2	82. Cossitt, David, Onondaga.	
<i>b</i> Oats.	3	<i>a</i> Wheat.	1
49. Budd, George, Enfield Falls.		<i>b</i> Barley.	4
<i>a</i> Corn.	2	83. Crosier, Adam, Stanley. Barley.	4
<i>b</i> Barley.	4	84. Cummings, Arthur, Cuylerville.	
50. Burch, J., Medina.		<i>a</i> Corn.	2
<i>a</i> Wheat.	1	<i>b</i> Oats.	3
<i>b</i> Oats.	3	85. Cummings, Peter, Schoharie. Corn.	2
<i>c</i> Barley.	4	86. Daniels, Avery A., Medina.	
51. Burroughs, Alden, Leon. Wheat.	1	<i>a</i> Oats.	3
52. Callman, John, Hopewell Centre.		<i>b</i> Barley.	4
Corn.	2	87. Davison, G. Howard, Millbrook. Corn.	2
53. Callum, John M., Caledonia. Corn.	2		2
54. Camenga, J. D., Enfield. Corn.	2	88. Davis, Robert O., Ballston. Wheat.	1
55. Cammett, S. H., Hopewell. Buck-		89. Decker, George W., Monticello. Corn.	2
wheat.	7		2
56. Campbell, Cullen, Tallman. Oats.	3	90. Densmore, Thomas, Flint. Buckwheat.	7
57. Carpenter, C. E., Dundee. Corn.	2		7
58. Case, Seward W., Orleans.		91. DeRider, J. S., Charlton. Oats.	3
<i>a</i> Wheat.	1	92. Deul, Stephen T., Little Rest. Oats.	3
<i>b</i> Corn.	2	93. Deyo, Luther E., Clintondale. Corn.	2
<i>c</i> Oats.	3	94. Didama, J. E., Medina.	
59. Carman, John, Porterville. Oats.	3	<i>a</i> Wheat.	1
60. Chamberlain, George, Southport.		<i>b</i> Barley.	4
Corn.	2	95. Diefendorf, W. W., Fort Plain. Corn.	2
61. Chapin, Willard, Castile. Barley.	4		2
62. Chapman, B. F., Chapinville.		96. Donald, N., Horseheads. Grasses.	8
<i>a</i> Wheat.	1	97. Doody, J. C., Medina.	
<i>b</i> Oats.	3	<i>a</i> Wheat.	1
63. Childs, W. E., Seneca Castle.		<i>b</i> Barley.	4
<i>a</i> Oats.	3	98. Dorf, George, Elba. Oats.	3
<i>b</i> Barley.	4	99. Dorman, W., Billsborough. Corn.	2
64. Church, Perry, Millville.		100. Duncan, A., Owego.	
<i>a</i> Wheat.	1	<i>a</i> Rye.	5
<i>b</i> Oats.	3	<i>b</i> Buckwheat.	7
65. Clark, A. Mead, Bedford. Wheat.	1	101. Eastman, C. F., Woodville. Corn.	2
66. Clark, Daniel, Lyndonville. Corn.	2	102. Eldridge, A. J., Leon. Corn.	2
67. Clark, George S., Milton. Corn.	2	103. Eldridge, William B., Angelica. Corn.	2
68. Clark, John G., Bedford.			2
<i>a</i> Corn.	2	104. Elwell, W. G., Reeds Corners.	
<i>b</i> Oats.	3	Wheat.	1
69. Clark, V. W., West Bethany. Bar-		105. Espensheid, N., Sodus. Barley.	4
<i>ley</i> .	4	106. Ferguson, Edward, Orleans.	
70. Clark, W. P., Washingtonville.		<i>a</i> Corn.	2
<i>a</i> Corn.	2	<i>b</i> Barley.	4
<i>b</i> Oats.	3	107. Ferguson, Summer, Orleans. Corn.	2
71. Cochran, Peter, Medina. Barley.	4	108. Finnegan, T., Brookfield. Barley.	4
72. Collins, Cholett, Victor. Oats.	3	109. Fisher, Abel, Ithaca. Corn.	

UNITED STATES.

110.	Fisher, Alexander, Ithaca.	Corn.	2	145.	Grinnell, A. D., East Shelby.	Barley.	4
111.	Fisher, George, Hendy Creek.	Rye.	5	146.	Haight, Clark, Oak Summit.	Barley.	4
112.	Fisher, John, Ridgeway.			147.	Hall, P. A., Seneca Castle.	Corn.	2
	<i>a</i> Wheat.		1	148.	Ham, Henry, Lyndonville.		
	<i>b</i> Oats.		2		<i>a</i> Wheat.		1
113.	Fisher, R. J., Millers.	Corn.	3		<i>b</i> Corn.		2
114.	Fisher, W. H., Delhi.			149.	Hamilton, William, Caledonia.		
	<i>a</i> Wheat.		1		<i>a</i> Wheat.		1
	<i>b</i> Corn.		2		<i>b</i> Barley.		4
	<i>c</i> Oats.		3	150.	Hart, George, Spencerport.		
115.	Fish, J. F., Waterloo.				<i>a</i> Corn.		2
	<i>a</i> Wheat.		1		<i>b</i> Oats.		3
	<i>b</i> Oats.		3	151.	Hartman, Warren, Kingsbury.	Barley.	4
116.	Flagler, Fred R., Mechanicsville.			152.	Hasbrouck, Hiram, Loyd.	Rye.	5
	Oats.		3	153.	Haslett, Edwin, Seneca Castle.		
117.	Folts, W. P., Herkimer.	Wheat.	1		<i>a</i> Oats.		3
118.	Ford, S., Elba.	Wheat.	1		<i>b</i> Barley.		4
119.	Fosbinder, Charles, Medina.			154.	Havens, John S., Patchogue.		
	<i>a</i> Wheat.		1		<i>a</i> Wheat.		1
	<i>b</i> Oats.		3		<i>b</i> Corn.		2
120.	Fox, David, Suffern.	Wheat.	1	155.	Haverling, George S., Bath.	Corn.	2
121.	Fox, William, Clifton Springs.			156.	Haviland, Peram, Glens Falls.	Corn.	2
	<i>a</i> Wheat.		1				2
	<i>b</i> Corn.		2	157.	Haviland, W. J., Glens Falls.		
	<i>c</i> Oats.		3		<i>a</i> Corn.		2
	<i>d</i> Barley.		4		<i>b</i> Oats.		3
122.	Fox, William F., Medina.			158.	Haviland & Hull, Glens Falls.		
	<i>a</i> Wheat.		1		<i>a</i> Rye.		5
	<i>b</i> Oats.		3		<i>b</i> Buckwheat.		7
123.	Frear, Alexander, Ithaca.			159.	Hawley, M. L., Lyndonville.		
	<i>a</i> Wheat.		1		<i>a</i> Wheat.		1
	<i>b</i> Corn.		2		<i>b</i> Oats.		3
124.	Frisbie, Osmond, Westport.	Barley.	4		<i>c</i> Oats.		3
			4	160.	Heath, Eugene, Shortsville.	Oats.	3
125.	Fuller, George, Medina.	Oats.	3	161.	Henry, George, Chapinsville.	Corn.	2
126.	Fuller, H. B., Lyndonville.	Oats.	3	162.	Hibbard, C. M., Sprout Brook.		
127.	Fuller, Myron, Medina.				<i>a</i> Wheat.		1
	<i>a</i> Wheat.		1		<i>b</i> Corn.		2
	<i>b</i> Oats.		3		<i>c</i> Oats.		3
	<i>c</i> Barley.		4	163.	Hill, A. L., Knowlesville.		
128.	Ferguson, R. B., Orleans.	Corn.	2		<i>a</i> Wheat.		1
129.	Galusha, George, Orleans.	Corn.	2		<i>b</i> Oats.		3
130.	Ganung, Jarvis, Ithaca.	Wheat.	1		<i>c</i> Barley.		4
131.	Gage, Edwin L., De Ruyter.			164.	Hill, Edward S., Peruville.	Buckwheat.	7
	<i>a</i> Wheat.		1	165.	Hill, Kate B., Medina.		
	<i>b</i> Oats.		3		<i>a</i> Wheat.		1
132.	Gardner, J., Lyons.	Wheat.	1		<i>b</i> Oats.		3
133.	Gillett, Willis A., Medina.	Barley.	4		<i>c</i> Barley.		4
134.	Gotts, Albert G., Medina.			166.	Hill, S. S., & Son, Knowlesville.		
	<i>a</i> Wheat.		1		<i>a</i> Wheat.		1
	<i>b</i> Oats.		3		<i>b</i> Oats.		3
	<i>c</i> Barley.		4	167.	Hisart, John, Mohawk.	Corn.	2
135.	Grant, Allen, Danby.			168.	Hisert, George, Mohawk.	Corn.	2
	<i>a</i> Oats.		3	169.	Hoag, J. E., Easton.	Corn.	2
	<i>b</i> Buckwheat.		7	170.	Hocroft, M. R., Hopeville.		
136.	Gray, Fred., Jeddo.				<i>a</i> Wheat.		1
	<i>a</i> Wheat.		1		<i>b</i> Corn.		2
	<i>b</i> Oats.		3	171.	Hogan, Clarence, Waterloo.		
137.	Gray, George, Millville.				<i>a</i> Wheat.		1
	<i>a</i> Wheat.		1		<i>b</i> Oats.		3
	<i>b</i> Barley.		4	172.	Holland, James, Seneca Castle.	Corn.	2
138.	Gray, James H., Lima.	Wheat.	1				2
139.	Green, William, Mt. Kisco.	Corn.	2	173.	Hopkins, F. B., Bath.	Corn.	2
140.	Gregory, C. P., Geneva.			174.	Hopkins, F. E., Millville.		
	<i>a</i> Wheat.		1		<i>a</i> Wheat.		1
	<i>b</i> Corn.		2		<i>b</i> Barley.		4
	<i>c</i> Oats.		3	175.	Hopkins, George, Ithaca.	Corn.	2
	<i>d</i> Barley.		4	176.	Horn, Henry, Lyons.	Wheat.	1
141.	Griffin, Edward, Owego.	Corn.	2	177.	Horning, A., Phelps.	Wheat.	1
142.	Griffin, J. M., Adamsville.	Buckwheat.	7				
143.	Griffin, W. F., Broadalbin.	Oats.	3				
144.	Griffith, B. F., Wyoming.	Wheat.	1				

DEPARTMENT A.—AGRICULTURE.

178. Howard, William A., Albion. Bar- ley.	4	209. Leonard, Charles, Shelby Centre. a Wheat.	1
179. Howe, David, Weedsport. Corn.	2	b Oats.	3
180. Howell, S. D., Millville. a Wheat.	1	c Barley.	4
b Oats.	3	210. Leutz, William, Lockport. Wheat.	1
c Barley.	4	211. Lincoln, O. M., Newark. a Corn.	2
181. Howland, John, Gloversville. a Corn.	2	b Barley.	4
b Oats.	3	212. Lindke, William, Shelby Centre. a Wheat.	1
c Rye.	5	b Oats.	3
d Buckwheat.	7	213. Link, W. H., Reeds Corners. Corn.	2
182. Isham, W. B., New York. a Corn.	2	214. Lobbett, J. J., North Ridgeway. a Wheat.	1
b Oats.	3	b Oats.	3
c Rye.	5	215. Longwell, Carver, Bradford. Corn.	2
183. Ives, F. O., South Easton. Corn.	2	216. Lowman, F. C., Nichols. Corn.	2
184. Johnson, Erastus, Spring Valley. a Corn.	2	217. Loveland, Albert, Albion. Corn.	2
b Oats.	3	218. Lowe, Manford, Leon. Oats.	3
185. Jolly, Isaac, West Fayette. a Wheat.	1	219. Luttenton, J. H., East Carleton. a Corn.	2
b Corn.	2	b Rye.	5
c Barley.	4	c Buckwheat.	7
186. Jones, John W., Elmira. a Wheat.	1	220. McAvoy, J., Medina. Barley.	4
b Rye.	5	221. McCann, John, Elmira. a Corn.	2
187. Jones, Prosser, Seneca Castle. Buck- wheat.	7	b Oats.	3
188. Jones, R. H., Clifton Springs. Oats.	3	222. McCargar, P. R., Shelby Centre. a Wheat.	1
189. Kennedy, C. B., Belleville. Barley.	4	b Barley.	4
190. King, H. N., Orleans. Barley.	4	223. McCarty, Milan, Throopsville. Corn.	2
191. Kingsford, Thomas, Oswego. a Wheat.	1	224. McCauley, Margaret, Clifton Springs. Wheat.	1
b Corn.	2	225. McCormick, A. J., Medina. Wheat.	1
c Barley.	4	226. McCullough, Andrew, Monticello. Buckwheat.	7
d Rye.	5	227. McGrain, Daniel, MacDougalls. Corn.	2
192. King, T. H., Trumansburg. Corn.	2	228. McNall, Albion. a Wheat.	1
193. Knapp, A. N., Seneca Castle. Corn.	2	b Corn.	2
194. Knapp, Silas, Middleport. Corn.	2	c Barley.	4
195. Kosky, Stephen, Ithaca. Wheat.	1	229. McPherson, D., Caledonia. Corn.	2
196. L'Hommedieu, W., Medina. a Corn.	2	230. McVean, J. J., Johnstown. a Corn.	2
b Oats.	3	b Oats.	3
c Barley.	4	c Rye.	5
197. Lake, John W., Medina. Wheat.	1	231. Mackey, D. D., Highland. a Wheat.	1
198. La Monte, C. M., Oswego. a Wheat.	1	b Corn.	2
b Oats.	3	c Oats.	3
199. Lanning, John W., Ithaca. a Corn.	2	232. Mack, J. W., Albion. a Wheat.	1
b Oats.	3	b Corn.	2
200. Larison, J. J., Blodgett Mills. Corn.	2	c Barley.	4
201. Lasher, Nelson. Corn.	2	233. Marsh, David, Cuylerville. Corn.	2
202. Laub, D. A. a Wheat.	1	234. Marshall, B., Waterloo. a Wheat.	1
b Corn.	2	b Corn.	2
c Barley.	4	c Oats.	3
203. Leach, A. T., Lyons. Barley.	4	d Barley.	4
204. Leathersich, David, Caledonia. Corn.	2	235. Maxson, Franklin, De Ruyter. Oats.	3
205. Lee, A. M., South Bloomfield. Corn.	2	236. Maynard, Mrs. O. E., Waterloo. Corn.	2
206. Lee, C. L., Ellisburgh. a Wheat.	1	237. Miller, E. D., Millers. Buckwheat.	7
b Corn.	2	238. Miller, Harmon, Lyons. a Wheat.	1
c Oats.	3	b Corn.	2
207. Lee, Frank L., Ellisburgh. Corn.	2	239. Miller, James, Penn Yan. Wheat.	1
208. Lee, Gene., Ellisburgh. a Oats.	3	240. Miller, John W., Palatine Bridge. Rye.	5
b Rye.	5		

UNITED STATES.

241.	Mitchell, Frank, Ithaca. Buckwheat.	
242.	Mix, Charles N., Albion. Corn.	7
243.	Moak, William, Lyons. Barley.	2
244.	Moore, John S., Medina.	4
	<i>a</i> Wheat.	1
	<i>b</i> Corn.	2
	<i>c</i> Oats.	3
245.	Moore, Reuben, Chatham.	
	<i>a</i> Corn.	2
	<i>b</i> Oats.	3
	<i>c</i> Rye.	5
246.	Morgan, George, Easton. Corn.	2
247.	Morse, Edward H., Canandaigua.	
	Barley.	4
248.	Muiser, Richard, Suffern.	
	<i>a</i> Rye.	5
	<i>b</i> Buckwheat.	7
249.	Murdock, Fred, Medina. Barley.	4
250.	Murphy, Arthur, Seneca Castle. Corn.	2
251.	Nellis, John W., Palatine Bridge.	
	Corn.	2
252.	Newcomb, A. J., Flint. Corn.	2
253.	Newell, E. S., De Ruyter. Oats.	3
254.	Newell, Roger, Huron. Barley.	4
255.	Newland, William, Orleans. Oats.	3
256.	Newman, William O., Ithaca. Corn.	2
257.	Newton, John, Hopewell Centre.	
	<i>a</i> Wheat.	1
	<i>b</i> Corn.	2
	<i>c</i> Barley.	4
258.	Nichols, Peter F., Lewis. Rye.	5
259.	Nichols, Scott, Adamsville.	
	<i>a</i> Corn.	2
	<i>b</i> Rye.	5
260.	Norris, A. H., Morganville. Barley.	4
261.	Nuteaway, Peter, Schoharie. Rye.	5
262.	Oxner, J. S., New Haven. Corn.	2
263.	Paine, E. C., Albion. Corn.	2
264.	Paine, John, Greece.	
	<i>a</i> Wheat.	1
	<i>b</i> Oats.	3
	<i>c</i> Barley.	4
265.	Parker, T. F., Clifton Springs. Oats.	3
266.	Payne, George, Hillsborough. Wheat.	1
267.	Pearson, Albert, Gorham. Wheat.	1
268.	Pease, William B., Lockport.	
	<i>a</i> Wheat.	1
	<i>b</i> Corn.	2
	<i>c</i> Oats.	3
	<i>d</i> Barley.	4
269.	Peck, A. J., Medina.	
	<i>a</i> Wheat.	1
	<i>b</i> Oats.	3
270.	Pelton Brothers, Monticello.	
	<i>a</i> Corn.	2
	<i>b</i> Oats.	3
271.	Pelton, P. R., Monticello. Rye.	5
272.	Pendry, William H., Albion.	
	<i>a</i> Wheat.	1
	<i>b</i> Oats.	3
273.	Perry, R. M., Medina. Wheat.	1
274.	Pettit, Henry, Medina.	
	<i>a</i> Wheat.	1
	<i>b</i> Oats.	3
275.	Pickett, Daniel, Millville.	
	<i>a</i> Wheat.	1
	<i>b</i> Corn.	2
	<i>c</i> Oats.	3
	<i>d</i> Barley.	4
276.	Pierson, M. F., Seneca Castle.	
	<i>a</i> Wheat.	1
	<i>b</i> Corn.	2
	<i>c</i> Oats.	3
	<i>d</i> Buckwheat.	7
277.	Pomeroy, Norman, Lockport. Buck-	
	wheat.	7
278.	Pratt, W. W., Ridgeway. Wheat.	1
279.	Preston, E., Pittsford.	
	<i>a</i> Corn.	2
	<i>b</i> Oats.	3
280.	Printop, Chief, Sanborn. Corn.	2
281.	Quinn, E. R., Waterloo.	
	<i>a</i> Corn.	2
	<i>b</i> Buckwheat.	7
282.	Ralliet, E. C., MacDougalls.	
	<i>a</i> Wheat.	1
	<i>b</i> Corn.	2
283.	Raymond, E. A., Bedford. Rye.	5
284.	Reed, M. B., Medina. Oats.	3
285.	Reed, N. T., Lowville. Corn.	2
286.	Reid, Joseph, Millville. Wheat.	1
287.	Reissugue, J., North Ridgeway.	
	Buckwheat.	7
288.	Reissugue, John, Blaine. Corn.	2
289.	Reynolds, Hiram, Medina. Wheat.	1
290.	Rhoades, Cyrus R., Leon. Buck-	
	wheat.	7
291.	Rhodes, Lorenzo, Hindsburgh.	
	Wheat.	1
292.	Robbins, Henry M., Cortland. Barley.	4
293.	Roberts, D. L., Royalton Centre.	
	Corn.	2
294.	Roe, Austin, Patchogue. Corn.	2
295.	Rogers, George P., Barre Centre.	
	<i>a</i> Wheat.	1
	<i>b</i> Barley.	4
296.	Ross, W. F., Knowlesville.	
	<i>a</i> Wheat.	1
	<i>b</i> Oats.	3
	<i>c</i> Barley.	4
297.	Rowley, A. P., South Cortland.	
	<i>a</i> Corn.	2
	<i>b</i> Oats.	3
298.	Rowley, George W., Saratoga	
	Springs. Corn.	2
299.	Ruelson, W. S., Clifton Springs.	
	Wheat.	1
300.	Russel & Birket, Penn Yan.	
	<i>a</i> Wheat.	1
	<i>b</i> Oats.	3
	<i>c</i> Buckwheat.	7
301.	Ryan, James, Shelby. Wheat.	1
302.	Safford, Chas. H., Argyle. Corn.	2
303.	Salisbury, Charles F., Orleans. Bar-	
	ley.	4
304.	Sanford, L. A., Gaines.	
	<i>a</i> Wheat.	1
	<i>b</i> Corn.	2
305.	Sargeant, A. J., Waterfort. Wheat.	1
306.	Saunders, J. P., Bristol Springs.	
	Wheat.	1
307.	Sayles, L. L., Malone.	
	<i>a</i> Wheat.	1
	<i>b</i> Corn.	2
	<i>c</i> Oats.	3
	<i>d</i> Barley.	4
308.	Scott, Frank D., Medina. Oats.	3
309.	Scott, John L., Geneseo. Wheat.	1
310.	Searing, William F., Sherwood.	
	Corn.	2

DEPARTMENT A.—AGRICULTURE.

311. Sears & Howell, Blooming Grove. Wheat. 1	350. Teeter, Andrew, Ithaca. a Wheat. 1 b Corn. 2 c Oats. 3
312. Seeber, H. Clay, Marshville. a Wheat. 1 b Buckwheat. 7	351. Tennant, E. M., Willet. Oats. 3
313. Seegwald, H. H., Clifton Springs. Oats. 3	352. Thom, John W., Highland. a Corn. 2 b Buckwheat. 7
314. Seeley, R. F., Waterloo. a Corn. 2 b Buckwheat. 7	353. Thompson, G. S., Amenia. Corn. 2
315. Sheerar, A., South Cortland. Rye. 5	354. Thompson, E. N., Meredith. Rye. 5
316. Sherman, Frank, Westport. Oats. 3	355. Thorne, Henry, Lyndonville. Wheat. 1
317. Sherman, Lewis & Dwelle, Penn Yan. Barley. 4	356. Tillbury, Herman, Owego. Rye. 5
318. Sherwood, John, Medina. a Wheat. 1 b Barley. 4	357. Tillson, Oliver J., Highland. a Rye. 5 b Buckwheat. 7
319. Shisler, A. J., Medina. a Wheat. 1 b Oats. 3	358. Timmerman, Arm., Medina. Barley. 4
320. Sholtes, C., Schoharie. Corn. 2	359. Tinkham & Sims, Akron. Barley. 4
321. Signor, Burdette, Danby. Oats. 3	360. Townsend, L. M., Lodi. a Wheat. 1 b Corn. 2 c Oats. 3
322. Simpkins, Irving, Medina. a Wheat. 1 b Oats. 3	361. Townsend, O. K., Ithaca. Oats. 3
323. Smith, A. B., Cortland. Wheat. 1	362. Treichler, E. J., Sanborn. a Wheat. 1 b Corn. 2
324. Smith, D. H., Middleport. Oats. 3	363. Trickey, R., Bristol Springs. Oats. 3
325. Smith, G. R. B., North Ridge. Wheat. 1	364. Turner, Samuel, Lyndonville. a Wheat. 1 b Oats. 3
326. Smith, John H., Medina. a Wheat. 1 b Oats. 3	365. Tuttle, Chas. N., Clockville. a Wheat. 1 b Barley. 4 c Rye. 5
327. Smith, Moses, Hallsville. Corn. 2	366. Updyke, C., West Fayette. Oats. 3
328. Smith, Owen, Angelica. Wheat. 1	367. Van Horn, William, Middleport. Corn. 2
329. Smith, S. J., Manchester. Wheat. 1	368. Van Sickle, G., MacDougalls. Oats. 3
330. Smith, W. & F., Geneva. a Corn. 2 b Rye. 5	369. Van Wie, Canajoharie. Corn. 2
331. Snyder, D. E., Newark. Barley. 4	370. Van Wie, Daniel, Palatine Bridge. a Corn. 2 b Rye. 5 c Buckwheat. 7
332. Spangle, W. J., Hopewell Centre. Oats. 3	371. Vosburg, C. L., Geneva. a Corn. 2 b Buckwheat. 7
333. Spencer, Lillie M., Highland. Oats. 3	372. Wait, Elmore, Easton. Corn. 2
334. Squires, J. C., Seneca. Buckwheat. 7	373. Walters, Harry J., Lisle. Oats. 3
335. Staley, Charles, Sharon Springs. a Oats. 3 b Buckwheat. 7	374. Walker, T. M., Angelica. Oats. 3
336. Stanbro, Wm., Jr., Brookfield. Oats. 3	375. Wayne, W. P., Orleans. Corn. 2
337. Stengel, John C., MacDougalls. Corn. 2	376. Webster, J. D., & Son, Medina. Oats. 3
338. Stewart, Alexander B., Ballston Centre. Rye. 5	377. Webster, Lester, Flint. Wheat. 1
339. Stillman, D. B., Brookfield. Corn. 2	378. Weed, James L., Ballston Spa. Corn. 2
340. Stone, J. R., West Fayette. a Corn. 2 b Oats. 3	379. Weld, John M., Medina. Wheat. 1
341. Sumner, Ferguson, Orleans. Oats. 3	380. Wheeler, George A., South Bloom- field. 1 a Wheat. 1 b Barley. 4
342. Sutton, Charles, Shortsville. a Oats. 3 b Rye. 5	381. Wheeler, Horace, Fayetteville. Wheat. 1
343. Swan, Claude, Melvin Hill. a Wheat. 1 b Buckwheat. 7	382. Wheeler, Jesse A., South Bloomfield. Corn. 2
344. Tallman, O. B., Seneca Castle. Oats. 3	383. Whipple, William, Medina. a Wheat. 1 b Corn. 2 c Oats. 3
345. Tallman, T. B., Seneca Castle. Corn. 2	384. White, Nathan, Mount White. Corn. 2
346. Tanner, Edwin, Warsaw. Corn. 2	385. Whitney, J. H., Millville. Barley. 4
347. Tanner, W. A., Medina. Oats. 3	386. Whittaker, Wm. E., Knowlesville. Barley. 4
348. Taylor, H. R., Clifton Springs. Corn. 2	
349. Taylor, Marvin, Argyle. a Wheat. 1 b Oats. 3	

UNITED STATES.

- | | |
|--|--|
| 387. Whittleton, James, Medina. Oats. 3 | 427. Canham, James, Knowlesville. Beans. 32 |
| 388. Wilcox, Amos, Jamestown. a Corn. 2 | 428. Childs, W. E., Seneca Castle. Beans. 32 |
| b Oats. 3 | |
| 389. Wilcox, Jones, East Chatham. Corn. 2 | 429. Clarke, Luther, Trumbulls Corners. Beans. 32 |
| 390. Wilkie, C. W., Flint. Oats. 3 | 430. Conover, Edwin, Carlyon. Beans. 32 |
| 391. Williams, C. F., Middleport. Corn. 2 | 431. Coon, Alexander, Medina. Beans. 32 |
| 392. Williams, D. E., Geneva. Corn. 2 | 432. Cummings, Arthur, Cuylerville. Beans. 32 |
| 393. Wilson, A. N., Lyndonville. Corn. 2 | 433. Doody, J. C., Medina. Beans. 32 |
| 394. Wilson, A. W., Millville. Corn. 2 | 434. Fletcher, James H., Waterport. Beans. 32 |
| 395. Wilson, Irving B., Bristol Springs. Barley. 4 | 435. Florey, Cubitt, Shelby Centre. Beans. 32 |
| 396. Wilson, Oliver, Highland. Rye. 5 | |
| 397. Wilson, William V., Medina. Barley. 4 | 436. Fuller, George, Medina. Beans. 32 |
| 398. Wolverton, Peter, Canandaigua. a Wheat. 1 | 437. Fuller, H. B., Lyndonville. Beans. 32 |
| b Barley. 4 | 438. Furguson, R. B., Orleans. Beans. 32 |
| 399. Wooden, H. S., Geneva. Corn. 2 | 439. Gillett, A. M., Knowlesville. Beans. 32 |
| 400. Wooden, J. H., Waterloo. a Wheat. 1 | 440. Gillett, E., Oak Orchard. Beans. 32 |
| b Rye. 5 | 441. Gotts, Albert G., Medina. Beans. 32 |
| 401. Wood, James, Mount Kisco. Corn. 2 | 442. Gould, H. D., Yates. Beans. 32 |
| 402. Wood, Lewis, Suffern. Corn. 2 | 443. Gray, Fred., Jeddo. Beans. 32 |
| 403. Wood, M. W., Woodville. Wheat. 1 | 444. Grimes, William, Oak Orchard. Beans. 32 |
| 404. Woodruff, John, Wadhams Mills. Wheat. 1 | 445. Grinnell, W. H., Piermont Manor. Beans. 32 |
| 405. Woodruff, John R., Westport. Corn. 2 | 446. Hawley, M. L., Lyndonville. Beans. 32 |
| 406. Wood, S. T., Woodville. Wheat. 1 | 447. Hill, H. C., Clifton Springs. Beans. 32 |
| 407. Wyman, Berry, Millville. a Wheat. 1 | 448. Howard, J. E., Canandaigua. Beans. 32 |
| b Barley. 4 | 449. Hutchinson, A., Gaines. Beans. 32 |
| 408. Yarter, A., Sandy Hill. Rye. 5 | 450. James, A. D., Knowlesville. Beans. 32 |
| 409. Yates County Exhibit, Penn Yan. a Oats. 3 | 451. Johnson, Seymour P., East Schuyler. Beans. 32 |
| b Barley. 4 | 452. Keefe, C., Shelby Centre. Beans. 32 |
| c Buckwheat. 7 | 453. Kosky, Stephen, Ithaca. Beans. 32 |
| 410. Young, E. J., Elmira. Wheat. 1 | 454. Kress, Edward, Spencerport. Beans. 32 |
| 410a. Young, Josiah, Tallman. Corn. 2 | 455. Larison, J. J., Blodgett Mills. Beans. 32 |
| 411. Zeh, Stephen W., Schoharie. Buckwheat. 7 | 456. Lee, Ora, Millville. Beans. 32 |
- GROUP 3.**
- | | |
|---|---|
| 412. Dietrich & Co., New York. Confectioners' and bakers' ornaments and trimmings. 27 | 457. Leonard, Charles, Shelby Center. Beans. 32 |
| 413. Little, Malcolm, Malcolm. Cane syrup. 24 | 458. Luttenton, J. H., East Carleton. Beans. 32 |
| 414. McKeel, Isaac, Poplar Ridge. Amber cane syrup. 24 | 459. Mack, J. W., Albion. Beans. 32 |
| 415. McMillan, James, Fairport. Amber cane syrup. 24 | 460. McBain, A. D., Brockport. Beans. 32 |
| | 461. McCann, James D., Elmira. Beans. 32 |
- GROUP 5.**
- | | |
|--|---|
| 416. Acer, V A., Shelby Centre. Beans. 32 | 462. Paine, F. W., Albion. Beans. 32 |
| 417. Aldridge, A. G., Victor. Beans. 32 | 463. Paine, John, Greece. Beans. 32 |
| 418. Allis, E. E., Barre Centre. Beans. 32 | 464. Payne, George, Hillsborough. Beans. 32 |
| 419. Ansley, Frank S., Billsborough. Beans. 32 | 465. Pickett, Daniel, Millville. Beans. 32 |
| 420. Archer, G. W., Clifton Springs. Beans. 32 | 466. Pierce, Romanzo, Lyndonville. Beans. 32 |
| 421. Bergeman, G., Yates. Beans. 32 | 467. Pierson, M. F., Seneca Castle. Beans. 32 |
| 422. Blanchard, George, Lyndonville. Beans. 32 | 468. Pomeroy, Norman, Lockport. Beans. 32 |
| 423. Bonnell, H. S., Waterloo. Beans. 32 | 469. Pratt, L., County Line. Beans. 32 |
| 424. Brown, R. R., & Sons, Carlyon. Beans. 32 | 470. Preston, E., Pittsford. Beans. 32 |
| 425. Brumaghin, A., Fonda. Broom corn. 32 | 471. Ralliett, E. C., MacDougalls. Beans. 32 |
| 426. Burch, Philo, Carlyon. Beans. 32 | 472. Reissugue, G., Millers. Beans. 32 |
| | 473. Ross, W. F., Knowlesville. Beans. 32 |
| | 474. Simpkins, Irving, Medina. Beans. 32 |
| | 475. Starr, H. M., Medina. Beans. 32 |

DEPARTMENT A.—AGRICULTURE.

476. Tinkham, Morris, East Shelby. Beans. 32
 477. Townsend, O. K., Ithaca. Beans. 32
 478. Turner, Samuel, Lyndonville. Beans. 32
 479. Tupper, J. C., Holley. Beans. 32
 480. Wadsworth, W. A., Chapinsville. Beans. 32
 481. Waterbury, A. B., Lyndonville. Beans. 32
 482. Webster, J. D., & Son, Medina. Beans. 32
 483. Whittleton, Jacob, Medina. Beans. 32
 484. Wilkie, C. W., Flint. Beans. 32
 485. Wilson, Wm. V., Medina. Beans. 32
 486. Whitney, J. H., Millville. Beans. 32
 487. Whittaker, Wm. R., Knowlesville. Beans. 32
 488. Yaxley, T. A., Ridgeway. Beans. 32
- GROUP 7.**
489. Ada, Chas. M., Bovina. Butter. 42
 490. Alexander, W. A., Scipioville. Butter. 42
 491. Alger, Geo. S., Martinsburg. Cheese. 43
 492. Anvos, Walter, Andes. Butter. 42
 493. Arbuckle, P. D., Delhi. Butter. 42
 494. Archibald, Geo., Bovina. Butter. 42
 495. Archibald, Jno. M., Bovina. Butter. 42
 496. Armstrong, Frank, Bovina Centre. Butter. 42
 497. Ashly, Steven, Sherman. Butter. 42
 498. Auker, Fred., High Market. Cheese. 43
 499. Ayers & McKinney, Meredith. Butter. 42
 500. Bailey, Jacob, Bovina Centre. Butter. 42
 501. Baker, A. D., Aurelius. Butter. 42
 502. Baker, Le Roy A., Aurelius. Butter. 42
 503. Baker, J. H., Aurelius. Butter. 42
 504. Baldwin, A. P., South Otselic. Butter. 42
 505. Barher & Miner, Oxford. Cheese. 43
 506. Bartlett, G. L., Edwards. Cheese. 43
 507. Berry, John H., Spragueville. Cheese. 43
 508. Benedict, P. F., Delhi. Butter. 42
 509. Biggar, A. C., Pepacton. Butter. 42
 510. Biggar, John, Andes. Butter. 42
 511. Biggar, Robert, Bovina Centre. Butter. 42
 512. Black, Wm., Bovina Centre. Butter. 42
 513. Borthwick, W. A., Delhi. Butter. 42
 514. Bowen, J. F., Lowville. Cheese. 43
 515. Boyd, Geo., Norwich. Cheese. 43
 516. Braxley, H. G., Bovina Centre. Butter. 42
 517. Brook, A., Owego. Butter. 42
 518. Brown, Ross, Sherman. Butter. 42
 519. Burgin, H. C., Lake Delaware. Butter. 42
 520. Burnes, Alexander, Bovina. Butter. 42
 521. Burns, J. D., Bovina Centre. Butter. 42
 522. Campbell, J. M., Bovina Centre. Butter. 42
 523. Catton, A. S., Clifton Springs. Butter. 42
 524. Cattsell, H. M., Rhinecliff. Butter. 42
 525. Chase, A., Oswego. Butter. 42
 526. Clunn, A., Bovina. Butter. 42
 527. Cook, E. B., Cazenovia. Butter. 42
 528. Cook, C. B., Cazenovia. Butter. 42
 529. Cooper, J. C., Theresa. Cheese. 43
 530. Cotton, A. S., Clifton Springs. Butter. 42
 531. Cottrell, H. M., Rhine Cliff. Butter. 42
 532. Craig, John, Jr., Delhi. Butter. 42
 533. Curd, I., Owego. Butter. 42
 534. Currie, James H., Delhi. Butter. 42
 535. Davidson, D., Lake Delaware. Butter. 42
 536. Doig, W. A., Bovina Centre. Butter. 42
 537. Doig, W. J., Lake Delaware. Butter. 42
 538. Dryden, Geo. J., Copenhagen. Cheese. 43
 539. Dutton, Julia M., Waterloo. Butter. 42
 540. Dysast, Alex. S., Delhi. Butter. 42
 541. Easton, G. R., Lowville. Cheese. 43
 542. Edwards, F. W., Sherman. Butter. 42
 543. Empire Cheese Co., New Berlin. Cheese. 43
 544. Evans, Roland, Glendale. Cheese. 43
 545. Every, Nehemiah, Delhi. Butter. 42
 546. Finster, I. E., Lacona. Cheese. 43
 547. Fisher, Geo. J., Delhi. Butter. 42
 548. Fisk, D., Owego. Butter. 42
 549. Flaherty, W. H., Massena. Cheese. 43
 550. French Creek Creamery, French Creek. Butter. 42
 551. Ganoing, A., Delhi. Butter. 42
 552. Gates, F. H. & Sons, Chittenango. Butter. 42
 553. George, James D., Delhi. Butter. 42
 554. Gilbert, W. H., Richland. Cheese. 43
 555. Glendening, John S., Delhi. Butter. 42
 556. Golding, Henry B., Groton. Butter. 42
 557. Goodrich, A. H., Oakwood. Butter. 42
 558. Gordon S., Chazy. Butter. 42
 559. Graves, B. M., Lowville. Cheese. 43
 560. Greswold, G. M., Oswego. Butter. 42
 561. Hall, Clarence L., Gouverneur. Cheese. 43
 562. Hasten, H., Owego. Butter. 42
 563. Hawley, F. W., Pittsford. Butter. 42
 564. Hilson, Thos., Bovina. Butter. 42
 565. Hobby, James, Lake Delaware. Butter. 42
 566. Hobby, Jno. T., Bovina. Butter. 42
 567. Holmes, Walter, Pulaski. Cheese. 43
 568. Howland, E. B., Walton. Butter. 42
 569. Howland, E. P., Walton. Butter. 42
 570. Hudson, T. R., Delhi. Butter. 42
 571. Hunt, G. D., Molina. Cheese. 43
 572. Jackson, T. R., Lake Delaware. Butter. 42
 573. Jarvin, Gilbert, Bovina Centre. Butter. 42
 574. Johnson, A., Bovina. Butter. 42
 575. Johnson, Alex. A., Bovina. Butter. 42
 576. Johnson, J. H., Bovina. Butter. 42
 577. Johnson, L. A., Collins. Cheese. 43
 578. Kaw, Michael, Boonville. Butter. 42
 579. Kirkland Creamery Co., Kirkland. Butter. 42
 580. Lawrence & Durland, Chester. Cheese. 43
 581. Lee, A. R., Bovina Centre. Butter. 42
 582. Lee, Chas. R., Bovina. Butter. 42
 583. Lewis, D. W., Sherruck. Butter. 42
 584. Little, D. D., Bovina. Butter. 42
 585. Loomis Creamery, Loomis. Butter. 42

UNITED STATES.

586. Loutz, Chas., Buffalo. Butter. 42
 587. Ludington, B. H., Bovina. Butter. 42
 588. Lull, G., Owego. Butter. 42
 589. Mable, R. A., Delhi. Butter. 42
 590. Mabin, J. C., Andes. Butter. 42
 591. Mabin, Thos., Andes. Butter. 42
 592. Marts, Marion C., Mohawk. Cheese. 43
 593. Mattison, H. S., Morris. Butter. 42
 594. Matteson, Henry S., Morris. Butter. 42
 595. McDonald, Alex., Delhi. Butter. 42
 596. McDonald, John T., Delhi. Butter. 42
 597. McFarland, A., Bovina. Butter. 42
 598. McFarland, J. T., Bovina. Butter. 42
 599. McGrath, Thomas W., New Boston. Cheese. 43
 600. McGriswold, Geo., Owego. Butter. 42
 601. McKinney, H. J., Pine Bush. Butter. 42
 602. McKinney, Bert, Orwell. Cheese. 43
 603. McMillen, John, Dresserville. Butter. 42
 604. Miller, A., Adams. Cheese. 43
 605. Miller, Marshall, Bovina Centre. Butter. 42
 606. Miller, Wm. L., Bovina Centre. Butter. 42
 607. Mitchell, J. D., Bovina. Butter. 42
 608. Montague, J. J., Ricard. Butter. 42
 609. Moore, C. D., Lowville. Cheese. 43
 610. Morehouse, Henry D., Ava. Cheese. 43
 611. Munson, Frank, Watertown. Butter. 42
 612. Neuchwander, J. & J., Monroe. Cheese. 43
 613. Nichols, Geo. E., Afton. Butter. 42
 614. Nichols, James, Andes. Butter. 42
 615. Norton, Robt., Attica. Cheese. 43
 616. Norton, Robert, & Co., Attica. Cheese. 43
 617. Olinstead, A. E., Orwell. Cheese. 43
 618. Oliver, D., Bovina Centre. Butter. 42
 619. Ormondson, Thos., Bovina Centre. Butter. 42
 620. Osborne, W. D., Port Byron. Butter. 42
 621. Park, J. F., Otto. Cheese. 43
 622. Pease, Howard N., Delhi. Butter. 42
 623. Petrie, Alphonso, Middleville. Cheese. 43
 624. Pickard & Baker, Hermon. Cheese. 43
 625. Pierdy, Geo. A., McDonough. Butter. 42
 626. Platt, H. N., McDonough. Butter. 42
 627. Pratt, Fred, Sherman. Butter. 42
 628. Prentice, W., Owego. Butter. 42
 629. Purdy, Geo. A., McDonough. Butter. 42
 630. Quading, S. C., Groton. Butter. 42
 631. Rankin, L. G., Little Falls. Cheese. 43
 632. Reed, James W., Caroline. Butter. 42
 633. Resford, O. M., Watertown. Butter. 42
 634. Richards, E., Owego. Butter. 42
 635. Richardson, W. W., West Schuyler. Cheese. 43
 636. Robertson, M., Bovina Centre. Butter. 42
 637. Rockwell, L. S., Gilbertsville. Cheese. 43
 638. Root, C. P., Gilbertsville. Cheese. 43
 639. Rud, Iram C., Syracuse. Butter. 42
 640. Ruff, W., Bovina. Butter. 42
 641. Russell, A. T., Bovina. Butter. 42
 642. Russell, James, Bovina. Butter. 42
 643. Russell, Jno. A., Bovina Centre. Butter. 42
 644. Russell, R. N., Bovina. Butter. 42
 645. Russell, S., Bovina Centre. Butter. 42
 646. Salisbury, B., Sandy Creek. Cheese. 43
 647. Scott, R. R., Bovina Centre. Butter. 42
 648. Sears, Geo., Sherman. Butter. 42
 649. Searl, Jay H., Lowville. Cheese. 43
 650. Shattuck, J. B., Cherry Creek. Butter. 42
 651. Shaw, Frank E., Dunkirk. Butter. 42
 652. Shaw, J. B., Crary's Mills. Butter. 42
 653. Sheldon, G. B., Gouverneur. Butter. 42
 654. Sheldon, G. B. & Son, Gouverneur. Butter. 42
 655. Sherruck Creamery, Sherruck. Butter. 42
 656. Shephard, D. L., Mount Upton. Butter. 42
 657. Shutts, A. M., State Line. Butter. 42
 658. Slate, Nelson, Jenksville. Butter. 42
 659. Smith, Alphens, Norwich. Cheese. 43
 660. Smith, H. L., Norwich. Cheese. 43
 661. Smith, James M., Bloomfield. Butter. 42
 662. Smith, Jackson, Herkimer. Cheese. 43
 663. Smith, S. W., Paris. Butter. 42
 664. Smith & Powell, Syracuse. Butter. 42
 665. Spencer, Wm. C., Lowville. Cheese. 43
 666. Spillman, Chas., Owego. Butter. 42
 667. Stangway, Thomas, Lake Delaware. Butter. 42
 668. Steele, Thomas L., Delhi. Butter. 42
 669. Stevens, Nelson, West Groton. Butter. 42
 670. Still, C. B., Theresa. Cheese. 43
 671. Stone, E. L., Mannsville. Cheese. 43
 672. Stuart, J. B., Delhi. Butter. 42
 673. Sweet, C. A., East Aurora. Butter. 42
 674. Sweezy, A. B., Sherman. Butter. 42
 675. Taylor, Clayton C., Lawton Station. Butter. 42
 676. Thompson, E. N., Delhi. Butter. 42
 677. Thompson, J. L., Delhi. Butter. 42
 678. Thompson, Wm., Delhi. Butter. 42
 679. Thompson, Dickinson, Bovina Centre. Butter. 42
 680. Thompson, R. A., Bovina Centre. Butter. 42
 681. Thompson, W. A., Bovina. Butter. 42
 682. Thompson, Wm. S., Bovina Centre. Butter. 42
 683. Thomson, Mrs. A. D., Bovina Centre. Butter. 42
 684. Townsend, Helen A., Emerson. Butter. 42
 685. Tuttle, A. L., South Edmeston. Cheese. 43
 686. Tuttle, C. A., Bovina Centre. Butter. 42
 687. Van Denmark, W., Owego. Butter. 42
 688. Van Etten, A., Owego. Butter. 42
 689. Van Wagener, Jared, Lawrenceville. Butter. 42
 690. Wait, M. R., Canton. Cheese. 43
 691. Walters, L., Owego. Butter. 42
 692. Warner & Osgood, Verona. Butter. 42
 693. Waterman, J., Owego. Butter. 42
 694. White, W. S., Bovina Centre. Butter. 42
 695. Whitford, Leroy, & Son, Stow. Butter. 42

DEPARTMENT A.—AGRICULTURE.

696.	Wight Bros., Andes.	Butter.	42
697.	Wilbur, D. F., Oneonta.	Butter.	42
698.	Wilcox, C. C., Oswego Falls.	Butter.	42
699.	Wilson, Alexander,	Bovina Centre.	
		Butter.	42
700.	Wilson, W. R., Delhi.	Butter.	42
701.	Wooster, C. A., North Hammond.		
		Cheese.	43
702.	Wright, Geo. R., Marcy.	Cheese.	43
703.	Wyman, J. B., Orwell.	Butter.	42
704.	Wyman, Morris, Orwell.	Butter.	42

GROUP 8.

705.	McHenry, G. P., Southport.	Leaf tobacco.	48
------	----------------------------	---------------	----

GROUP 9.

706.	Beardwell, Aaron, Fargo.	Wool.	60
707.	Case, Nathan, Hoosick Falls.	Wool.	60
708.	Cassitt, Davis, Onondaga.	Wool.	60

709.	Chick, John, Attica.	Wool.	60
710.	Curry, Messrs., Hartwick.	Wool.	60
711.	Earl, J. Horatio, Skaneateles.	Wool.	60
712.	Ham, Henry, Lyndonville.	Flaxseed.	59
713.	Harmon, John S., Chatham.	Flaxseed.	59
714.	Harmon, Mrs. Phebe, Red Rock.	Flaxseed.	59
715.	MacNoughton Co., New York.	Wool.	60
716.	Osborne & Ladd, Victor.	Wool.	60
717.	Ray, John P., Hemlock Lake.	Wool.	60
718.	Warren, J. Hobart, Hoosick Falls.	Wool.	60
719.	Wood, James, Mount Kisco.	Wool.	60
720.	Wylie, F., Marcellus.	Wool.	60

GROUP 10.

721.	Morgan, John, New York.	Mineral water.	64
------	-------------------------	----------------	----

NORTH CAROLINA.

GROUP 1.

1.	Ainhoney, Jacob, Louise.	Rice.	6
2.	Alinge, Baron d', Biltmore.		
	<i>a</i> Corn.		2
	<i>b</i> Oats.		3
	<i>c</i> Rye.		5
	<i>d</i> Grass.		8
3.	Allison, J. P., Concord.	Wheat.	1
4.	Anthony, Phillip, Morganton.	Buckwheat.	7
5.	Archer, J. F., Jackson.	Corn.	2
6.	Armstrong, A., Elizabeth City.	Corn.	2
7.	Ashley, John, Cranberry.	Wheat.	1
8.	Atkins, James, Colfax.	Wheat.	1
9.	Bagwell, H. B., Garner.	Pease.	9
10.	Bailey, R. W., Durham.	Corn.	2
11.	Baldwin, C. M., Whiteville.	Corn.	2
12.	Baldwin, T. M., Rise.	Wheat.	1
13.	Ball, A. H., Colfax.	Millet.	8
14.	Barnes, R., Jonesboro.		
	<i>a</i> Corn.		2
	<i>b</i> Pease.		9
15.	Batts, J. E., Bridgersville.	Pease.	9
16.	Beason, John, Winston.		
	<i>a</i> Wheat.		1
	<i>b</i> Oats.		3
17.	Becker, H. J., Jerusalem.	Corn.	2
18.	Bernhardt, J. C., Salisbury.	Corn.	2
19.	Biggerstaff, A. W., Lincolnton.		
	<i>a</i> Wheat.		1
	<i>b</i> Corn.		2
	<i>c</i> Oats.		3
	<i>d</i> Pease.		9
20.	Bizzle, H. N., Fayetteville.		
	<i>a</i> Rye.		5
	<i>b</i> Rice.		6
21.	Blount Bros., Bethel.	Rice.	6
22.	Blue, John, Laurinburg.	Corn.	2
23.	Bolinger, L. A., Newton.		
	<i>a</i> Wheat.		1
	<i>b</i> Corn.		2
	<i>c</i> Oats.		3
	<i>d</i> Rye.		5
	<i>e</i> Pease.		9

24.	Booze, T., Winston.	Wheat.	1
25.	Boswell, W. L., Edenton.	Pease.	9
26.	Bowditch, J. A., Micaville.		
	<i>a</i> Wheat.		1
	<i>b</i> Corn.		2
	<i>c</i> Oats.		3
	<i>d</i> Rye.		5
	<i>e</i> Buckwheat.		7
27.	Bower, D. E., Yadkin Valley.	Buckwheat.	7
28.	Boyce, W. W., Pineville.		
	<i>a</i> Wheat.		1
	<i>b</i> Corn.		2
	<i>c</i> Oats.		3
	<i>d</i> Rye.		5
	<i>e</i> Rice.		6
29.	Brake, J. L., Rocky Mount.		
	<i>a</i> Corn.		2
	<i>b</i> Pease.		9
30.	Breener, T. K., Elizabeth City.	Corn.	2
31.	Brinkley, H., Glen Alpine.	Wheat.	1
32.	Brown, G. F., Harts.	Corn.	2
33.	Brown, R. A., Wilson's Store.		
	<i>a</i> Wheat.		1
	<i>b</i> Corn.		2
	<i>c</i> Oats.		3
	<i>d</i> Rye.		5
	<i>e</i> Pease.		9
34.	Brown, T. K., Elizabeth City.	Oats.	3
35.	Bryan, J. A., Kenansville.	Corn.	2
36.	Bryson, S. H., Balsam.	Wheat.	1
37.	Buffoloe, R. J., Raleigh.	Pease.	9
38.	Bullinger, J. F., Hickory.	Pease.	9
39.	Bunday, D. A., Johns Station.	Pease.	9
40.	Burwell, J. B., Raleigh.	Oats.	3
41.	Byers, D. A., Edneyville.		
	<i>a</i> Wheat.		1
	<i>b</i> Oats.		3
	<i>c</i> Rye.		5
42.	Canble, H. M., Salisbury.	Oats.	3
43.	Cannon, G. H., Town Creek.	Pease.	9

UNITED STATES.

44. Canup, C., Salisbury.		76. Deal, M. S. Newton.	
<i>a</i> Wheat.	1	<i>a</i> Wheat	1
<i>b</i> Corn.	2	<i>b</i> Oats.	3
<i>c</i> Oats.	3	<i>c</i> Pease.	9
<i>d</i> Pease.	9	77. Doughton, T. H., Laurel Springs.	
45. Carlton, A. W., Warsaw. Rice.	6	Corn.	2
46. Carlton, S., Warsaw.		78. Doughtry, Allen, Newton Grove.	
<i>a</i> Wheat.	1	Wheat.	1
<i>b</i> Rice.	6	79. Doughtry, Wm., Newton Grove.	
47. Carmichael, J. A., John Station. Rice.	6	Oats,	3
48. Carr, J. H., Xenia.		80. Doughtry, J. H., Laurel Springs.	
<i>a</i> Corn.	2	<i>c</i> Rye.	5
<i>b</i> Rye.	5	<i>b</i> Buckwheat.	7
49. Cathey, L. A., Mt. Holly.		81. Dull, E. C., Phafftown. Wheat.	1
<i>a</i> Wheat.	1	82. Dunston, Dr. H. V., Windsor.	
<i>b</i> Corn.	2	<i>a</i> Oats.	3
<i>c</i> Oats.	4	<i>b</i> Pease.	9
<i>d</i> Pease.	9	83. Early, A. E., Aulander. Wheat.	1
50. Chamblee, W. H., Wakefield. Corn.	2	84. Early, A. W., Aulander. Oats.	3
51. Chitty, W. H., Menola. Wheat.	1	85. Edens, H. L., Red Springs.	
52. Clapp, Carroll, Newton. Rice.	6	<i>a</i> Wheat.	1
53. Clemmons, E. T., Asheville. Grass.	8	<i>b</i> Pease.	9
54. Click, M., Augusta. Corn.	2	86. Edmundson, A. J., Shine. Pease.	9
55. Cloverdale, Daisy, Raleigh. Oats.	3	87. Elder, Lee, Trinity College. Corn.	2
56. Cofield, J. E., Cisco. Oats.	3	88. Elms, J. H., Pineville. Corn.	2
57. Collett, Jno., Thomasville. Wheat.	1	89. Emeny, F. E., Raleigh. Pease.	9
58. Conrad, A. E., Lewisville. Wheat.	1	90. Emory, T. L., Weldon. Corn.	2
59. Costner, W. A. Lincolnton		91. Estes, S. F., Upton.	
<i>a</i> Wheat	1	<i>a</i> Wheat.	1
<i>b</i> Corn.	2	<i>b</i> Corn.	2
<i>c</i> Oats.	3	<i>c</i> Buckwheat.	7
60. Cox, R. L., Winston.		<i>d</i> Pease.	9
<i>a</i> Wheat.	1	92. Etheridge, E. E., Colerain.	
<i>b</i> Corn.	2	<i>a</i> Corn.	2
<i>c</i> Oats.	3	<i>b</i> Pease.	9
61. Cox, S. S., Brown's Store.		93. Etheridge, Jno., Snowden. Rice.	6
<i>a</i> Wheat.	1	94. Fagg, M. J., Asheville. Grass.	8
<i>b</i> Corn.	2	95. Farmer, T. R., Hasty. Corn.	2
<i>c</i> Oats.	3	96. Felton, W. B., Rockyhock. Pease.	9
62. Cranberry Iron & Coal Co., Cranberry.		97. Fiegler, L., Bethania. Oats.	3
<i>a</i> Corn.	2	98. Finch, T. J., Wheatmore.	
<i>b</i> Oats.	3	<i>a</i> Wheat.	1
63. Crawford, Lee, Franklin. Wheat.	1	<i>b</i> Hay.	8
64. Cress, P. J., China Grove. Wheat.	1	99. Fink, J. A., Linwood.	
65. Cronly, M., Jr., Wilmington. Rice.	6	<i>a</i> Wheat.	1
66. Cunningham, J. S., Cunningham		<i>b</i> Corn.	2
<i>a</i> Wheat.	1	<i>c</i> Oats.	3
<i>b</i> Corn.	2	100. Finley, J. H., Edneyville. Corn.	2
<i>c</i> Oats.	3	101. Fisher, J. W., Webster. Oats.	3
67. Currie, A. H., Maxton.		102. Forney, Robt., Bridgewater.	
<i>a</i> Wheat.	1	<i>a</i> Wheat.	1
<i>b</i> Corn.	2	<i>b</i> Oats.	3
<i>c</i> Oats.	3	<i>c</i> Rye.	5
<i>d</i> Pease.	9	<i>d</i> Buckwheat.	7
68. Dale, J. A., Bridgewater. Wheat.	1	<i>e</i> Pease.	9
69. Davis, C. W., Englehard. Oats.	3	103. Fulp, Dr. E., Fulp.	
70. Davis, E. L., Augusta. Pease.	9	<i>a</i> Wheat.	1
71. Davis, G. E., Englehard.		<i>b</i> Oats.	3
<i>a</i> Corn.	2	104. Garratt, C. W., & Co., Medoc. Corn.	2
<i>b</i> Pease.	9	105. Gibbs, Robt., Gibbs. Corn.	2
72. Davis, T. R., Augusta. Corn.	2	106. Gibbs, J. M., Ivy.	
73. Davis, T. W., Creek.		<i>a</i> Wheat.	1
<i>a</i> Corn.	2	<i>b</i> Corn.	2
<i>b</i> Pease.	9	<i>c</i> Oats.	3
74. Davis, W. E., Creek.		<i>d</i> Buckwheat.	7
<i>a</i> Corn.	2	<i>e</i> Pease.	9
<i>b</i> Oats.	3	107. Gibbs, W. F., Bridgewater.	
75. Deadman, J. H., Augusta.		<i>a</i> Wheat, threshed and in straw.	1
<i>a</i> Wheat.	1	<i>b</i> Corn.	2
<i>b</i> Corn.	2	108. Goforth, A. J., Belmont. Corn.	2
<i>c</i> Pease.	9	109. Goldston, J. J., Goldston. Oats.	3
		110. Goldston, Maxton. Oats.	3

DEPARTMENT A.—AGRICULTURE.

111.	Goodwin, E. McK., Raleigh.		147.	Jones, M. B., Mt. Olive. Wheat.	1
	<i>a</i> Corn.	3	148.	Jones, T. F., Cester's Mills. Pease.	9
	<i>b</i> Grass.	8	149.	Jones, W. H., Middleton. Pease.	9
	<i>c</i> Pease.	9	150.	Joyner, A. M., Murfreesboro. Pease.	9
112.	Goodyear, Chas., Waynesville.		151.	Junerson, D. W., Rocky Pass. Rice.	6
	Wheat.	1	152.	Justice, Isaac, Edneyville.	
113.	Graham, W. A., Machpelah.			<i>a</i> Buckwheat.	7
	<i>a</i> Wheat.	1		<i>b</i> Pease.	9
	<i>b</i> Pease.	9	153.	Justus, W. R., Bowman's Bluff. Rye.	5
114.	Graves, R. N., Augusta. Corn.	2	154.	Keech, B. J., Tarboro. Rice.	5
115.	Greason, M., Climax. Oats.	3	155.	Kennedy, W. L., Falling Creek.	
116.	Green, Bryant, Millbrook. Oats.	3		<i>a</i> Corn.	2
117.	Green, T. L., Williamston. Corn.	2		<i>b</i> Oats.	3
118.	Gretter, R. M., Climax. Corn.	2		<i>c</i> Rye.	5
119.	Gwyn, N. H., Patterson. Wheat.	1		<i>d</i> Rice.	6
120.	Hansley, Wilson, Bald Creek.			<i>e</i> Pease.	9
	<i>a</i> Wheat.	1	156.	Kerley, S. C., Morganton. Wheat.	1
	<i>b</i> Buckwheat.	7	157.	Kerley, W. L., Kilby. Buckwheat.	7
121.	Harrison, H. S., Medoc.		158.	Kincaid, R. N., Bridgewater.	
	<i>a</i> Oats.	3		<i>a</i> Oats.	3
	<i>b</i> Pease.	9		<i>b</i> Rye.	5
122.	Harrison, S. R., Salisbury. Corn.	2		<i>c</i> Pease.	9
123.	Harris, W. L., Salisbury. Corn.	2	159.	King, T. J., Louisburg.	
124.	Hasty, D. W., Alfordsville.			<i>a</i> Wheat.	1
	<i>a</i> Oats.	3		<i>b</i> Oats.	3
	<i>b</i> Rice.	6		<i>c</i> Grass-seed.	8
125.	Helms, F. M., Beaver Dam. Wheat.	1	160.	Kiser, Jacob, Snapp. Corn.	2
126.	Hendricks, J. A., Tennyson. Corn.	2	161.	Kistler, W. L., Bear Poplar. Oats.	3
127.	Hester, A. J., Winstead.		162.	Knight, E. E., Tarboro. Rice.	6
	<i>a</i> Wheat.	1	163.	Knight, L. D., Tarboro.	
	<i>b</i> Corn.	2		<i>a</i> Wheat.	1
	<i>c</i> Oats.	3		<i>b</i> Rice.	6
	<i>d</i> Pease.	9	164.	Koon, G. H., Salisbury.	
128.	High, A. H., Whiteville.			<i>a</i> Wheat.	1
	<i>a</i> Oats.	3		<i>b</i> Corn.	2
	<i>b</i> Rice.	6		<i>c</i> Oats.	3
129.	Hines, A. A., Waynesville.			<i>d</i> Pease.	9
	<i>a</i> Corn.	2	165.	Kornegoy, C. F. R., Mount Olive.	
	<i>b</i> Oats.	3		Rice.	6
	<i>c</i> Buckwheat.	7	166.	Lackey, J. A., Bridgewater.	
130.	Hobbs, J. G., Alfordsville. Rice.	6		<i>a</i> Wheat.	1
131.	Hocutt, W. B., Rocky Point. Rice.	6		<i>b</i> Corn.	2
132.	Hodges, J. D., Augusta.			<i>c</i> Oats.	3
	<i>a</i> Wheat.	1	167.	Lail, P. C., Conover. Wheat.	1
	<i>b</i> Pease.	9	168.	Lambeth, D. T., Thomasville.	
133.	Hodley, J. M., La Grange. Rice.	6		Wheat.	1
134.	Holford, W. H., Weldon. Corn.	2	169.	Lambeth, J. H., Thomasville.	
135.	Holt, S. B., Graham. Corn.	2		Wheat.	1
136.	Holt, T. M., Thomasville.		170.	Lane, Daniel, Bellair.	
	<i>a</i> Wheat.	1		<i>a</i> Corn.	2
	<i>b</i> Oats.	3		<i>b</i> Pease.	9
	<i>c</i> Clover seed and pease.	9	171.	Laurence, W. G., Fayetteville.	
137.	Holt & Homewood, Burlington.			<i>a</i> Corn.	2
	<i>a</i> Wheat.	1		<i>b</i> Pease.	9
	<i>b</i> Corn.	2	172.	Lashley, J. C., Castle Hoyne.	
	<i>c</i> Oats.	5		<i>a</i> Corn.	2
	<i>d</i> Barley.	3		<i>b</i> Oats.	3
	<i>e</i> Rye.	4		<i>c</i> Pease.	9
	<i>f</i> Buckwheat.	7	173.	Lautz, J. F., Lincolnton.	
	<i>g</i> Grass in sheaf and seed.	8		<i>a</i> Rye.	5
138.	Hossell, W. E., Somerset. Pease.	9		<i>b</i> Rice.	6
139.	Humphrey, Jno., Clark.		174.	Lawe, J. S., Flat Shoal. Pease.	9
	<i>a</i> Corn.	2	175.	Lawrence, L. H., Cookley. Rice.	6
	<i>b</i> Rice.	6	176.	Lenoir, R. T., Yadkin Valley.	
140.	Ingram, J., Asheville.			<i>a</i> Wheat.	1
	<i>a</i> Oats.	3		<i>b</i> Corn, grain and ear.	2
	<i>b</i> Rye.	5		<i>c</i> Oats.	3
141.	James, Alfred, Martin Co. Rice.	6		<i>d</i> Pease.	9
142.	Jenkins, A. J., Dallas. Wheat.	1	177.	Lilly, Lafayette, Scotland Neck.	
143.	Jenkins, R. M., Mt. Holly. Wheat.	1		Pease.	9
144.	Jenkins, Wm., Dallas. Corn.	2			
145.	Johnson, J. A., Weldon. Corn.	2			
146.	Jones, G. A., Franklin. Wheat.	1			

UNITED STATES.

178.	Lindsay, T. B., Douglas.		206.	McLeod, J. A., Euphronia.	
	<i>a</i> Wheat.	1		<i>a</i> Wheat.	1
	<i>b</i> Corn.	2		<i>b</i> Corn.	2
	<i>c</i> Oats.	3	207.	McNair, M., Maxton.	
	<i>d</i> Rye.	5		<i>a</i> Oats.	3
	<i>e</i> Buckwheat.	7		<i>b</i> Rye.	5
179.	Loftin, J. O., Mt. Olive.			<i>c</i> Pease.	9
	<i>a</i> Corn.	2	208.	McRae, M. R., Maxton. Corn.	2
	<i>b</i> Oats.	3	209.	Memminger, E. R., Flat Rock.	
	<i>c</i> Pease.	9		<i>a</i> Corn.	2
180.	Long, W. S., Tarboro. Oats.	3		<i>b</i> Rye.	5
181.	Love, W. A., Maxton. Rice.	6	210.	Middleton, D. J., Warsaw. Rye.	5
182.	Lowe, W. B., Maxton. Wheat.	1	211.	Midgett, W. T., Lake Landing.	
183.	Lowman, Monroe, Connelly Springs.			Corn.	2
	<i>a</i> Corn.	2	212.	Miller, J. A., Tennyson. Wheat.	1
	<i>b</i> Barley.	4	213.	Miller, H. G., Zeb. Corn.	2
184.	Lumsden, W. J., Elizabeth City.		214.	Moore, James, Raleigh. Oats.	3
	<i>a</i> Corn.	2	215.	Moore, J. B., Raleigh. Oats.	3
	<i>b</i> Oats.	3	216.	Moore, Job, Johnson's Mills. Rice.	6
	<i>c</i> Pease.	9	217.	Moore, J. L., Kinston. Rice.	6
185.	Lyda, T. A. W., Maxwell. Corn.	2	218.	Morning, T. R., Farmville. Rice.	6
186.	Lyman, A. H. & C. H., Asheville.		219.	Morris, H. A., Germantown. Wheat.	1
	Hay.	8	220.	Morrow, J. W., Pineville.	
187.	Lynch, E. M., Rutherfordton.			<i>a</i> Wheat.	1
	<i>a</i> Corn.	2		<i>b</i> Corn.	2
	<i>b</i> Rye.	5		<i>c</i> Oats.	3
	<i>c</i> Pease.	9	221.	Morson, A. E., Maxton. Corn.	2
188.	Lynch, M. K., Darlington. Oats.	3	222.	Moye, A. J., Farmville.	
189.	Lynch, M. K., Rutherfordton.			<i>a</i> Corn.	2
	<i>a</i> Corn.	2		<i>b</i> Oats.	3
	<i>b</i> Pease.	9		<i>c</i> Rice.	6
190.	Manes, P. M., Winston. Wheat.	1		<i>d</i> Pease.	9
191.	Mason, J. W., Edenton. Pease.	9	223.	Nash, H. K., Tarboro. Rice.	6
192.	Maxwell, Mark, Waynesville. Rye.	5	224.	Newbury, H. E., Magnolia. Rice.	6
193.	Mayo, O. W., Tarboro. Rice.	6	225.	Newbury, W. R., Xenia. Pease.	9
194.	McAnally, R. P., Saxon.		226.	Nicholson, J., Belvidere. Rice.	6
	<i>a</i> Wheat.	1	227.	Oldham, T. J., Oaks. Oats.	3
	<i>b</i> Corn.	2	228.	Oliver, J. F., Mt. Olive. Rice.	6
	<i>c</i> Rye.	3	229.	Orr, Thomas, Bakam.	
	<i>d</i> Oats.	5		<i>a</i> Rye.	5
	<i>e</i> Pease.	9		<i>b</i> Buckwheat.	7
195.	McByod, J. A., Antioch.		230.	Osborne, G. H., Idlewilde.	
	<i>a</i> Corn.	2		<i>a</i> Corn.	2
	<i>b</i> Pease.	9		<i>b</i> Rye.	5
196.	McClain, D. L., Maxton.		231.	Osborne, J. A., Garden Creek.	
	<i>a</i> Wheat.	1		Wheat.	1
	<i>b</i> Corn.	2	232.	Owen, B. H., Salisbury. Oats.	3
	<i>c</i> Oats.	3	233.	Palmer, J. L., Palmersville. Wheat.	1
	<i>d</i> Rye.	5	234.	Parker, Gilliam, Lillington. Corn.	2
	<i>e</i> Rice.	6	235.	Parks, W. F., Zion. Buckwheat.	7
	<i>f</i> Pease.	9	236.	Patterson, D. A., Maxton.	
197.	McClurem, Jas., Scotland Neck.			<i>a</i> Corn.	2
	Rice.	6		<i>b</i> Oats.	3
198.	McColloch, G., Augusta.			<i>c</i> Rye.	5
	<i>a</i> Corn.	2		<i>d</i> Pease.	9
	<i>b</i> Oats.	3	237.	Paul, E. B., Lumberton. Corn.	2
199.	McDonald, Chas., Concord. Wheat.	1	238.	Payne, D. M., Trinity College. Corn.	2
200.	McGirt, J., Montpelier. Rye.	5	239.	Pearsall, E. D., Rocky Point. Pease.	9
201.	McGregor, B. F., Condave.		240.	Pedicord, H. A., Bethania. Wheat.	1
	<i>a</i> Wheat.	1	241.	Peeler, D. H., Chesterfield. Oats.	3
	<i>b</i> Corn.	2	242.	Pegram, L. A., Winston. Wheat.	1
	<i>c</i> Oats.	3	243.	Perry, J. W., Leewood.	
202.	McIver, Alex., Egypt.			<i>a</i> Wheat.	1
	<i>a</i> Wheat.	1		<i>b</i> Corn.	2
	<i>b</i> Corn.	2		<i>c</i> Oats.	3
	<i>c</i> Oats.	3		<i>d</i> Pease.	9
203.	McIver, Dr. J., Jonesboro. Corn.	2	244.	Perry, T. E., Belvidere. Rice.	6
204.	McIver, H., Tillery.		245.	Pfaff, J. E., Winston. Wheat.	1
	<i>a</i> Corn.	2	246.	Pharr, W. S., Charlotte.	
	<i>b</i> Pease.	9		<i>a</i> Wheat.	1
205.	McKinnon, McKay, Maxton. Pease.	9		<i>b</i> Corn.	2
				<i>c</i> Oats.	3
				<i>d</i> Rye.	5
				<i>e</i> Pease.	9

DEPARTMENT A.—AGRICULTURE.

247.	Picken, W. T., Jerusalem. Wheat.	1	282.	Simpson, W. J., Pernell.	
248.	Pope, H. J., Weldon. Corn.	2	a Corn.		2
249.	Porrell, J. A., Warsaw. Oats.	3	b Pease.		9
250.	Porter, S., Andrews.		283.	Skittlethroe, J. R., Newton. Rice.	6
a Wheat.		1	284.	Smith, J. C., Vilas. Buckwheat.	7
b Corn.		2	285.	Smith, Julius, Morganton. Oats.	3
251.	Prince, M. B., Henderson.		286.	Smith, R. T., Belmont. Corn.	2
a Corn.		2	287.	Snider, J. L., Balsam.	
b Pease.		9	a Corn.		2
252.	Propst, Martin, Concord. Corn.	2	b Oats.		3
253.	Rainey, Delma, Mayfield.		288.	Spencer, B., Lake Landing. Rice.	6
a Corn.		2	289.	Spikes, Henry, Fieldsboro.	
b Pease.		9	a Oats.		3
254.	Ramsey, Jno., Ray. Rye.	5	b Rice.		6
255.	Rankin, Maj. N. T., Franklin. Wheat.	1	290.	Stanton, D. M., La Grange.	
256.	Reinhardt, R. P., Newton.		a Corn.		2
a Corn.		2	b Rice.		6
b Oats.		3	c Pease.		9
257.	Relfe, L. C., Durant's Neck.		291.	Starbuck, J. C., Colfax.	
a Wheat.		1	a Wheat.		1
b Corn.		2	b Oats.		3
c Oats.		3	c Grass.		8
258.	Reynolds, Henry, Asheville. Hay.	8	292.	Stevens, Jos., Snowden. Oats.	3
259.	Reynolds, Mrs. W. F., Asheville.		293.	Stevenson, G. E., Snowden. Peas.	9
Oats.		3	294.	Stewart, C. W., Tennyson. Corn.	2
260.	Ricks, R. H., Rocky Mount.		295.	Stewart, F. L., Tennyson. Corn.	2
a Corn.		2	296.	Stewart, P. S., Tennyson. Oats.	3
b Oats.		3	297.	Stokes, J. B., Windsor. Corn.	2
c Pease.		9	298.	Stone, W. G., Bowman's Bluff.	
261.	Riddle, B. E., Burnsville. Rye.	5	a Corn.		2
262.	Riggan, R. H., Edwardsville.		b Oats.		3
a Wheat.		1	299.	Stone, W. H., Shallotte. Corn.	2
b Corn.		2	300.	Stowe, Jasper, Bilmont. Corn.	2
c Oats.		3	301.	Stronach, W. C., Raleigh. Corn.	2
d Rye.		5	302.	Stroup, Moses, Snapp.	
263.	Robinson, J. M., Burnsville.		a Wheat.		1
a Wheat.		1	b Oats.		3
b Oats.		3	303.	Strupe, W. C., & Sons, Clemmers-	
c Buckwheat.		7	ville. Wheat.		1
264.	Robinson, Col. Jno., Raleigh.		304.	Sturdivant, J. N., Rushing.	
a Corn.		2	a Wheat.		1
b Pease.		9	b Corn.		2
265.	Robinson, J. W., Hickory.		305.	Sullivan, Elias, Institute. Rice.	6
a Corn.		2	306.	Sulton, O. W., Mt. Olive.	
b Rye.		5	a Corn.		2
c Grass.		8	b Rye.		5
266.	Robinson, M. B., Burnsville. Corn.	2	c Pease.		9
267.	Rogers, D., Cullowhee. Wheat.	1	307.	Summers, T. I., Snow Creek.	
268.	Roper, J. W., Pineville. Pease.	9	a Wheat.		1
269.	Rowe, D. P., Newton.		b Oats.		3
a Wheat.		1	308.	Swicegood, G. W., Jerusalem. Corn.	2
b Clover seed.		8	309.	Swicegood, H. H., Tennyson. Corn.	2
270.	Rubin, G., Asheville. Wheat.	1	310.	Taylor, B. W., Shine.	
271.	Ruck, C., Cester's Mills. Pease.	9	a Wheat.		1
272.	Rucker, W. H., Green Hill. Wheat.	1	b Rye.		5
273.	Rust, J. R., Bridgewater.		311.	Taylor, Geo., Fort Barnwell.	
a Oats.		3	a Corn.		2
b Barley.		4	b Rye.		5
c Rye.		5	c Pease.		9
d Buckwheat.		7	312.	Taylor, T. F., Idlewild. Buckwheat.	7
e Pease.		9	313.	Terrell, W. S., Sonoma.	
274.	Sanborn, G. C., Snowden. Corn.	2	a Wheat.		1
275.	Sawyer, J. M., Stecoah. Corn.	2	b Corn.		2
276.	Sawyer, W. R., Stonewall. Corn.	2	c Oats.		3
277.	Seaford, H. R., Tennyson. Oats.	3	d Rye.		5
278.	Seirvers, G. W., Daisy. Corn.	2	e Buckwheat.		7
279.	Shankle, Eli, Shankle.		314.	Thomas, H. C., Thomasville. Wheat.	1
a Wheat.		1	315.	Thomas, Jas., Fayetteville	
b Corn.		2	a Wheat.		1
c Oats.		3	b Oats.		3
280.	Shipman, J. M., Clarkton. Pease.	9	316.	Thompson, Dr. C., Richlands. Oats.	3
281.	Shrum, Sol., Newton. Wheat.	1	317.	Thompson, J. L., Augusta. Wheat.	1

UNITED STATES.

318.	Thorn, Mrs. M. P., Elm City.		<i>b</i> Corn.	2
	<i>a</i> Corn.	2	<i>c</i> Oats.	3
	<i>b</i> Oats.	3	<i>d</i> Buckwheat.	7
	<i>c</i> Pease.	9	345. Wolfe & Morrow, Pineville. Pease.	9
319.	Tucker, R. S., Raleigh. Clover seed.	8	346. Wolf, Jas., Asheville. Oats.	3
320.	Tucker, W. T., Jerusalem. Oats.	3	347. Wood, J. H., Weldon. Pease.	9
321.	Upchurch, W. G., Raleigh.		348. Woolf, J. A., Rural Hall.	
	<i>a</i> Wheat.	1	<i>a</i> Wheat.	1
	<i>b</i> Corn.	2	<i>b</i> Corn.	2
	<i>c</i> Oats.	3	349. Wooten, S. J., LaGrange. Rice.	6
322.	Vanhook, C., Franklin. Wheat.	1	350. Wyatt, E. R. Raleigh. Pease.	9
323.	Walker, J. B., Rutherfordton.		351. Wyatt, L. R., Raleigh.	
	Wheat.	1	<i>a</i> Wheat.	1
324.	Walker, T. J., Columbia. Corn.	2	<i>b</i> Corn.	2
325.	Walton, H. H., Morganton.		<i>c</i> Oats.	3
	<i>a</i> Wheat.	1	<i>d</i> Pease.	9
	<i>b</i> Corn.	2	352. Yost, J. A., Salisbury.	
	<i>c</i> Rye.	5	<i>a</i> Oats.	3
326.	Ward, S. H., Jamestown.		<i>b</i> Buckwheat.	7
	<i>a</i> Wheat.	1	353. Ziegler, J., Bethania. Wheat.	1
	<i>b</i> Oats.	3		
327.	Warmack, J. C., Clemmons ville.			
	Oats.	3		
328.	Watson, M., Andrews.			
	<i>a</i> Oats.	3		
	<i>b</i> Rye.	5		
	<i>c</i> Pease.	9		
329.	Watson, Mrs. W. F., Scotland Neck.			
	<i>a</i> Corn.	2		
	<i>b</i> Pease.	9		
330.	Welch, J. C., High Point.			
	<i>a</i> Wheat.	1		
	<i>b</i> Oats.	3		
331.	Westfeldt, J. R., Fletcher.			
	<i>a</i> Corn.	2		
	<i>b</i> Oats.	3		
	<i>c</i> Rye.	5		
332.	Wharton, R. W., Washington.			
	<i>a</i> Corn.	2		
	<i>b</i> Oats.	3		
	<i>c</i> Pease.	9		
333.	Whitaker, W. C., Enfield. Rice.	6		
334.	White, Rufus, Belvidere. Rice.	6		
335.	Whitesell, J. C., Eton College.			
	<i>a</i> Wheat.	1		
	<i>b</i> Corn.	2		
	<i>c</i> Oats.	3		
336.	Whitson, J. M., Manteo.			
	<i>a</i> Corn.	2		
	<i>b</i> Pease.	9		
337.	Wilde, T. F., Marshall.			
	<i>a</i> Wheat.	1		
	<i>b</i> Corn.	2		
	<i>c</i> Oats.	3		
338.	Williams, H. C., Willeyton.			
	<i>a</i> Corn.	2		
	<i>b</i> Oats.	3		
	<i>c</i> Rice.	6		
339.	Williams, J. C., Winslow.			
	<i>a</i> Wheat.	1		
	<i>b</i> Corn.	2		
	<i>c</i> Oats.	3		
	<i>d</i> Rye.	5		
	<i>e</i> Pease.	9		
340.	Williams, J. M., Clover. Corn.	2		
341.	Williams, W. F., Cairo. Rye.	5		
342.	Wilson, R. W., Newton. Buck-			
	wheat.	7		
343.	Winslow, D. E., Nicanor. Rice.	6		
344.	Wolfe, A. A., Pittsboro.			
	<i>a</i> Wheat.	1		

GROUP 3.

354.	Alinge, Barond', Biltmore. Sorghum.	24
355.	Baldwin, T. M., Rise. Sorghum.	24
356.	Biggerstaff, A. W., Lincolnton. Sorghum.	24
357.	Blue, John, Laurinburg. Sugar cane syrup.	18
358.	Bowditch, J. A., Micaville. Sorghum.	24
359.	Brickett, W. J., Knob Creek. Sorghum.	24
360.	Brown, G. T., Harts. Sorghum.	24
361.	Brown, R. A., Wilson's Store. Sorghum and cane seed.	24
362.	Bryson, S. H., Balsam. Sorghum.	24
363.	Canup, C., Salisbury. Sorghum.	24
364.	Carr, R. D., Xenia. Sorghum.	24
365.	Cathey, L. S., Mt. Holly. Sorghum.	24
366.	Chamblee, W. H., Wakefield. Sorghum.	24
367.	Clark, H., Rocky Mount. Sorghum.	24
368.	Davis, T. W., Creek. Sorghum.	24
369.	Dunston, Dr. H. Y., Windsor. Sorghum.	24
370.	Edmundson, A. J., Shine. Sorghum.	24
371.	Estes, S. F., Upton. Sorghum.	24
372.	Etheridge, E. E., Colerain. Sorghum.	24
373.	Gibbs, W. F., Bridgewater. Sorghum.	24
374.	Graham, W. A., Machpelah. Sorghum.	24
375.	Green, T. L., Williamstown. Sorghum.	24
376.	Harris, F. C., Pineville. Sorghum.	24
377.	Harrison, H. S., Medoc. Sorghum.	24
378.	Hester, A. J., Winstead. Sorghum.	24
379.	High, A. A., Whiteville. Sorghum.	24
380.	Hines, A. H., Waynesville. Sorghum.	24
381.	Hodges, J. D., Augusta. Sorghum.	24
382.	Lenoir, R. T., Yadkin Valley. Sorghum.	24
383.	Lyda, T. A. W., Maxwell. Sorghum.	24
384.	Lynch, M. K., Darlington. Sorghum.	24
385.	McAnally, R. P., Saxon. Sugar.	24
386.	McByrd, J. A., Antioch. Sorghum.	24
387.	McIver, Alix., Egypt. Sorghum.	24
388.	McLain, D. L., Maxton. Sorghum.	24
389.	McLeod, J. A., Euphronia. Sorghum.	24
390.	Moye, A. J., Farmville. Sorghum.	24
391.	Pharr, W. S., Charlotte. Sorghum.	24
392.	Prince, M. B., Henderson. Sorghum.	24
393.	Robinson, J. M., Burnsville. Sorghum.	24

DEPARTMENT A.—AGRICULTURE.

394. Sawyer, W. R., Stonewall. Sorghum. 24
 395. Spikes, H., Fieldsboro. Cane seed. 24
 396. Tinley, J. H., Edneyville. Sorghum. 24
 397. Tucker, J. T., Lane's Creek. Sorghum. 24
 398. Watson, Mrs. T. B., Ridgeway. Sorghum syrup. 18
 399. Whitesell, J. C., Elon College. Sorghum. 24
 400. Wilde, T. F., Marshall. Sorghum. 24
 401. Williams, J. C., Willeyton. Sorghum. 24
 402. Williams, J. C., Winslow. Sorghum. 24
 403. Wolfe, A. A., Pittsboro. Sorghum. 24

GROUP 4.

404. Battle & Howard, Rocky Mount. Peanuts. 31
 405. Bloinger, L. A., Newton. Peanuts. 31
 406. Boswell, W. F., Edenton. Peanuts. 31
 407. Bryan, J. A., Kenansville. Peanuts. 31
 408. Cannon, G. H., Town Creek. Peanuts. 31
 409. Carr, J. H., Xenia. 30
 a Chufas. 31
 b Peanuts. 31
 410. Early, A. W., Aulander. Peanuts. 31
 411. Edmundson, A. J., Shine. Peanuts. 31
 412. Etheridge, E. E., Colerain. Peanuts. 31
 413. Gamble, H. M., Salisbury. Peanuts. 31
 414. Gatling, J. J., Sarem. Peanuts. 31
 415. Gibbs, J. M., Joy. Peanuts. 31
 416. Gilmore, M., Egypt. Peanuts. 31
 417. High, A. J., Whiteville. Peanuts. 31
 418. Jordan, G. F., Bergaw. Peanuts. 31
 419. Kennedy, W. L., Lenoir. Peanuts. 31
 420. Lee, G. B., Rocky Point. Peanuts. 31
 421. Mason, J. W., Edenton. Peanuts. 31
 422. McIvor, M. A., Egypt. Peanuts. 31
 423. McLain, D. L., Maxton. Peanuts. 31
 424. McIntyre, E., Green Hill. Peanuts. 31
 425. Moye, A. J., Farmville. Peanuts. 31
 426. Newbury, H. E., Magnolia. Peanuts. 31
 427. Paul, E. B., Lumberton. Peanuts. 31
 428. Perry, J. W., Leewood. Peanuts. 31
 429. Pharr, W. S., Charlotte. Peanuts. 31
 430. Prince, M. B., Henderson. Peanuts. 31
 431. Ricks, R. H., Rocky Mount. Peanuts. 31
 432. Seymour, J. & W., Sligo. Peanuts. 31
 433. Southerland, D. D., Laurinburg. Peanuts. 31
 434. Stanton, D. M., La Grange. Peanuts. 41
 435. Stokes, J. B., Windsor. Peanuts. 31
 436. Tinley, J. H., Edneyville. Peanuts. 31
 437. Thames, Jas., Fayetteville. Peanuts. 31
 438. Thorn, Mrs. M. P., Elm City. Peanuts. 31
 439. Walker, S. J., Columbia. Peanuts. 31
 440. Watson, Mrs. W. F., Scotland Neck. Peanuts. 31
 441. Wharton, R. W., Washington. Peanuts. 31
 442. Williams, H. C., Willeyton. Peanuts. 31
 443. Williams, J. C., Winslow. Peanuts. 31

GROUP 5.

444. Alinge, Baron d', Asheville. Teosinte roots. 32
 445. Bolinger, L. A., Newton. Beans. 32
 446. Boyce, W. W., Pineville. Kaffir corn. 32
 447. Bowditch, J. A., Micaville. Beans and sunflower seed. 32
 448. Branch, W. E., Enfield. Beans. 32
 449. Carr, J. H., Xenia. Tuberose bulbs. 32
 450. Davis, W. E., Creek. Beans. 32

451. Deald, M. S., Newton. Beans. 32
 452. Emery, F. E., Raleigh. Beans. 32
 453. Etheridge, E. E., Colerain. Beans. 32
 454. Holt & Homewood, Burlington. Broom corn. 32
 455. Lowman, M., Connelly Springs. Beans. 32
 456. Miller, W. M., Burnsville. Beans. 32
 457. Moye, A. J., Farmville. Sunflower seed. 32
 458. Newberry, H. E., Magnolia. Deer tongue. 32
 459. Nothern, P. L., Snowden. Beans. 32
 460. Perry, J. W., Leewood. Beans. 32
 461. Prince, M. B., Henderson. Broom corn. 32
 462. Ricks, R. H., Rocky Mount. Beans. 32
 463. Riggan, R. H., Edwardsville. Beans. 32
 464. Rust, J. R., Bridgewater. Beans. 32
 465. Sanborn, G. C., Currituck. Sunflower seed. 32
 466. Sherrill, Elbert, Sherrill Ford. Beans. 32
 467. Taylor, Mrs. L. C., Morganton. Beans. 32
 468. Vail, J. G., Morganton. Beans. 32
 469. Wilde, T. F., Marshall. Beans. 32
 470. Williams, H. C., Willeyton. Beans. 32
 471. Woolf, J. A., Rural Hall. Beans. 32

GROUP 8.

472. Holt & Homewood, Burlington. Hops. 46
 473. Smith, Mrs. J. M., Fayetteville. Uncolored tea. 45

GROUP 9.

474. Archer, J. T., Jackson. Cotton lint, seed and bolls. 53
 475. Bateman, J. S., Creswell. Cotton lint, seed and bolls. 53
 476. Biggerstaff, A. W., Lincolnton. Cotton lint, seed and bolls. 53
 477. Brown, R. A., Wilson's Store. Cotton lint, seed and bolls. 53
 478. Butler, M. F., Rutherfordton. Cotton lint, seed and bolls. 53
 479. Cannon, G. H., Iron Creek. Cotton lint, seed and bolls. 53
 480. Carr, J. H., Xenia. Cotton lint, seed and bolls. 53
 481. Carthey, L. G., Mt. Holly. Cotton lint, seed and bolls. 53
 482. Charles, J. N., Jerusalem. Cotton lint, seed and bolls. 53
 483. Creekmore, W. P., Moyock. Cotton lint, seed and bolls. 53
 484. Davis, W. E., Creek. Cotton lint, seed and bolls. 53
 485. Dunston, Dr. H. Y., Windsor. Cotton lint, seed and bolls. 53
 486. Edmundson, A. J., Shine. Cotton lint, seed and bolls. 53
 487. Etheridge, E. E., Colerain. Cotton lint, seed and bolls. 53
 488. Evans, J. & O., Fayetteville. Cotton lint, seed and bolls. 53
 489. Gibson, J. B., Maxton. Cotton seed. 53
 490. Graham, W. A., Machpelah. Cotton lint, seed and bolls. 53
 491. High, A. H., Whiteville. Cotton lint, seed and bolls. 53
 492. Holt, T. M., Linwood. Cotton lint, seed and bolls. 53
 493. Holt & Homewood, Burlington. Flax. 59

UNITED STATES.

494. Kennedy, W. L., Falling Creek. Cotton lint, seed and bolls. 53	516. Williams, H. C., Willeyton. Cotton lint, seed and bolls. 53
495. Lane, Danl., Bellair. Cotton lint, seed and bolls. 53	517. Williams, J. C., Winslow. Cotton lint, seed and bolls. 53
496. MacGregor, B. F., Conclave. Cotton lint, seed and bolls. 53	518. Williams, J. M., Clover. Cotton lint, seed and bolls. 53
497. McByrd, J. A., Antioch. Cotton lint, seed and bolls. 53	519. Wood, J. H., Neldon. Cotton lint and seed. 53
498. McIver, M. H., Egypt. Cotton lint, seed and bolls. 53	
499. McLain, D. L., Maxton. Cotton lint and bolls. 53	GROUP 16.
500. Morrow, J. W., Pineville. Cotton lint, seed and bolls. 53	520. Townsend, J. L., Fulmore. Stalk cutter. 88
501. Moye, A. J., Farmville. Cotton lint and seed. 53	
502. Pharr, W. S., Charlotte. Cotton lint and seed. 53	GROUP 17.
503. Pleasant, J. T., Pernell. Cotton lint, seed and bolls. 53	521. Battle, Gaston, Rocky Mount. Soil from cotton land. 93
504. Relfe, L. C., Durant's Neck. Cotton lint and seed. 53	522. Carter, W. S., Fairfield. Soil from corn land. 93
505. Ricks, R. H., Rocky Mount. Cotton seed and bolls. 53	523. Currin, J. M., Oxford. Soil from tobacco land. 93
506. Rowe, D. P., Newton. Cotton lint, seed and bolls. 53	524. French Bros., Rocky Point. Lime, rock and marl. 93
507. Spikes, Henry, Fieldsboro. Cotton lint, seed and bolls. 53	525. Gwyn, R. L., Mt. Airy. Soil from grain land. 93
508. Stone, W. H., Shallotte. Cotton lint, seed and bolls. 53	526. Hackburn & Milletts, Newbern. Soil from trucking land. 93
509. Sturdivant, J. N., Rushing. Cotton lint, seed and bolls. 53	527. Holt, T. M., Linwood. Soil from grain land. 93
510. Sutton, O. W., Mt. Olive. Cotton lint, seed and bolls. 53	528. Hoyt, Jno. K., Luther. Soil from apple land. 93
511. Tucker, R. S., Raleigh. a Cotton bolls. 53	529. Kidder, Fred., St. Philips. Soil from rice land. 93
b Flaxseed. 59	530. Porter, R. L., Franklin. Soil from grass and grain land. 93
512. Walters, J. F., Maxton. Cotton seed. 53	531. Stevens, W. E., Clinton. Soil from fruit land. 93
513. Watson, Mrs. W. F., Scotland Neck. Cotton lint and seed. 53	532. Stowe, Jasper, Belmont. Soil from grain land. 93
514. Westbrook, J. H., Rocky Point. Cotton seed and lint. 53	533. Tarbell, C. D., Southern Pines. Soil from fruit land. 93
515. Wharton, R. W., Washington. Cotton lint, seed and bolls. 53	534. Tucker, R. S., Raleigh. Soil from grass and grape land. 93
	535. Williams, H. C., Willeyton. Soil from peanut land. 93
	536. Wilson, A. E., Montezuma. Soil from grass and grain land. 93

NORTH DAKOTA.

GROUP 1.

1. Allen, J. J., Bismarck. Oats. 3	18. Hocking, John G., Ripon. Corn. 2
2. Beaty, O. K., Carrington. Rye. 5	19. Hopes, John, Bismarck. Wheat. 1
3. Bolton, Thomas, Park River. Oats. 3	20. Johnson, Alfred, Painted Woods. Corn. 2
4. Casey, L. R., Carrington. Wheat. 1	21. Keep, J. M., Fargo. Oats. 3
5. Couch, W. B., Bismarck. Oats. 3	22. Killian, Fred., Bismarck. Oats. 3
6. Eckland, John, Eckland. Oats. 1	23. Lewis, Ida, Bismarck. Corn. 2
7. Engle, M. J., Lisbon. Wheat. 1	24. McBride, J. H., Bismarck. Oats. 3
8. Ferris, Charles, Bismarck. Corn. 2	25. McCauley, George, Bismarck. Corn. 2
9. Field, J. A., Bismarck. Wheat. 1	26. McDonald, J. L., Bismarck. Oats. 3
10. Fisk, W. H., Carrington. Rye. 5	27. McGarvey, James, Bismarck. Oats. 3
11. Fletcher, Alfred, Jamestown. Wheat. 1	28. McHench, Andrew, Fargo. Oats. 3
12. Fullen, William, Ripon. Corn. 2	29. McMahan, J., Fargo. Corn. 2
12. Gamble, Alexander, Fargo. Wheat. 1	30. McPherson, John, McKinzie. Corn. 2
14. Hall, Ralph, Carrington. Wheat. 1	31. Margeson, Ole, Grass Lake. Wheat. 1
15. Haynes, L. H., Fargo. Wheat. 1	32. Meachem, O. J., Carrington. a Wheat. 1
16. Hayes, W. M., Fargo. b Wheat. 1	b Rye. 5
b Oats. 3	33. Murphy Bros., Carrington. Wheat. 1
17. Hiatt, W. G., Power. Corn. 2	34. Nichols, John, Bismarck. Corn. 2

DEPARTMENT A.—AGRICULTURE.

35. Norton, John, Bismarck. Corn.	2	43. Sleepen, Wm., Grass Lake. Wheat.	1
36. Oleson, Andrew, Eckland. Wheat.	1	44. Sperry, E. H., Bismarck. Corn.	2
37. Page, E. M., Carrington. Rye.	5	45. Sweeney, Wm., Carrington. Wheat.	1
38. Parkin, H. S., Cannon Ball. Corn.	2	46. Tyler, E. S., Fargo. Wheat.	1
39. Power, J. B., Power. Corn.	2	47. Tubbs, W. E., Mandan. Corn.	2
40. Quinlan, John, Bismarck.		48. Willey, Will, Bismarck. Corn.	2
<i>a</i> Wheat.	1	49. Wilcox, Mrs. Peter, Bismarck. Corn.	2
<i>b</i> Oats.	3	50. Wells, E. P., Jamestown. Oats.	3
41. Robinson, Wm., Carrington. Rye.	5	51. Wade, I. C., Jamestown. Oats.	3
42. Sears, E. L., Ripon. Corn.	2		

OHIO.

Group 1.

1. Allen, Joseph, Gano. Wheat in straw.	1	31. Culbertson, Joseph, Grand Rapids.	
2. Aple, Henry, Haskins. Wheat.	1	<i>a</i> Wheat.	1
3. Bailey, John, Scotch Ridge. Wheat in straw.	1	<i>b</i> Corn.	2
4. Baker, Charles, Delaware. Corn.	2	<i>c</i> Oats.	3
5. Baker, Samuel, Weston.		32. Demis, L. J., Maumee. Wheat in straw.	1
<i>a</i> Wheat.	1	33. Deweese & Son, Weston. Wheat.	1
<i>b</i> Oats.	3	34. Ellis S. H., Springboro.	
6. Bamer, John, Grand Rapids. Wheat.	1	<i>a</i> Corn.	2
7. Bandeen, A., Haskins. Wheat in straw.	1	<i>b</i> Grass seed.	8
8. Benschuter, J. S., Grand Rapids. Oats.	3	35. Emerick, Geo., Haskins. Wheat in straw.	1
9. Beverage, S. F., Athens County. Corn.	2	36. Erwin, Cornelius, Butler County. Corn.	2
10. Beverstock, Edward, Tontogany. Corn.	2	37. Farnsworth, Watson, Waterville. Oats.	3
11. Biddell, James, Weston. Oats.	3	38. Foot, Joel, Tontogany. Wheat in straw.	1
12. Biddell, J. H., Weston. Wheat in straw.	1	39. Fillmore, Jas., Weston. Corn.	2
13. Blodgett, James, Weston. Corn.	2	40. French, B. A., Lenox. Wheat in straw.	1
14. Bonham, L. N., Oxford.		41. Fuller, A. B., Bowling Green. Corn.	2
<i>a</i> Oats.	3	42. Gillespie, J. L., Monroe County. Corn.	2
<i>b</i> Grass seed.	8	43. Gumm, M. B., North Madison. Wheat in straw.	1
15. Brandt, Fred J., Bowling Green. Corn.	2	44. Hackerman, D. J., Neopolis.	
16. Brigham, J. H., Fulton. Oats.	3	<i>a</i> Corn.	2
17. Brown, Elwood, Weston. Corn.	2	<i>b</i> Grass seed.	8
18. Burshoter, J. S., Grand Rapids. Grass seed.	8	45. Hall, David, Bloom Center.	
19. Brown, Morgan, Tontogany. Wheat.	1	<i>a</i> Wheat.	1
20. Brown, Wm., Weston.		<i>b</i> Corn.	2
<i>a</i> Wheat.	1	<i>c</i> Grass seed.	8
<i>b</i> Oats.	3	46. Hance, Ed., Grafton. Wheat in straw.	1
21. Brown, T. J., Logan. Wheat in straw.	1	47. Hannah, Wm., Tontogany. Corn.	2
22. Brown, W. H., Saybrook. Wheat in straw.	1	48. Harper, J. C., Limerick. Wheat in straw.	1
23. Cling, Amos, Marion. Grass seed.	8	49. Harrison, W. G., Carlton. Wheat in straw.	1
24. Coe, B. E., Weston.		50. Harris, Joseph, Butler County. Corn.	2
<i>a</i> Wheat.	1	51. Heckerman, D. J., Neopolis.	
<i>b</i> Corn.	2	<i>a</i> Corn.	2
<i>c</i> Oats.	3	<i>b</i> Grass seed.	8
25. Corwin, D. F., Warren County. Corn.	2	52. Horn, Jos., Bowling Green. Corn.	2
26. Corwin, D. J., Warren County.		53. Huber, Allen, Logan County. Corn.	2
<i>a</i> Wheat.	1	54. Jewell, Geo., Weston. Corn.	2
<i>b</i> Oats.	2	55. Jewell, Young, Defiance. Wheat in straw.	1
27. Corwin, E. J., Warren County.		56. Jones, Elmer, Weston. Wheat in straw.	1
<i>a</i> Wheat in straw.	1	57. Jones, Wm., Weston.	
<i>b</i> Corn.	2	<i>a</i> Wheat.	1
28. Crofts, Thos., Toledo.		<i>b</i> Corn.	2
<i>a</i> Oats.	3	<i>c</i> Oats.	3
<i>b</i> Grass seed.	8	58. Keckley, Jos., Marysville. Corn.	2
29. Cross, Thomas, Toledo. Corn.	2		
30. Culbertson, Eli, Grand Rapids.			
<i>a</i> Wheat in straw.	1		
<i>b</i> Oats.	3		

59.	Kelley, W. A., Kenton. Wheat in straw.	1
60.	Kelly, John H., Sulphur Springs. Corn.	2
61.	Knowlton, Levi, Licking County. Corn.	2
62.	Logan, Henry, Athens. Wheat in straw.	1
63.	Mamer, John, Grand Rapids. Wheat in straw.	1
64.	Mann, A., Bowling Green. Corn.	2
65.	Martin, Mm., Weston. a Wheat in straw.	1
	b Corn.	2
	c Oats.	3
66.	Martin, William, Weston. a Wheat in straw.	1
	b Corn.	2
	c Oats.	3
67.	McKane, Scotch Ridge. Wheat in straw.	1
68.	Mitchell, H., Bowling Green. Wheat in straw.	1
69.	Neifer, Albert, Weston. a Wheat.	1
	b Corn.	2
	c Grasses and grass seeds	8
70.	Neifer, E. C., Tontogany. Wheat.	1
71.	Nichols, Robert, Butler County. Corn.	2
72.	Ohio Agricultural Experiment Station. a Wheat in straw.	1
	b Oats.	3
73.	Pettys, Lester, Weston. Wheat.	1
74.	Phillips, Henry, Toledo. Grass seed.	8
75.	Powell, Frank, Haskins. Oats.	3
76.	Potter, Henry, Tontogony. a Wheat.	1
	b Oats.	3
77.	Powell, J. W., Benton. Wheat in straw.	1
78.	Pugh, Wm., Weston. Oats.	3
79.	Roe, Jas., Weston. Wheat in straw.	1
80.	Ross, William, Weston. Oats.	3
81.	Russ, Wm., Weston. a Wheat in straw.	1
	b Oats.	3
82.	Santer, Jacob, Weston. Wheat in straw.	1
83.	Sawyer, R.E., Tiro. Wheat in straw.	1
84.	Shafer, S. H., Logan County. Corn.	2
85.	Shroyer, T., Preston. Wheat in straw.	1
86.	Simms, Ewing, Eugene. Corn.	1
87.	Simmons, Frank, Bloom Center. Oats.	3
88.	Soash, W. O., Tontogany. Wheat.	1
89.	Sterns, John, Weston. Wheat in straw.	1
90.	St. John, J. F., Elroy. Wheat in straw.	1
91.	Stretchberry, James, Weston. Corn.	2
92.	Stretchberry, Wm., Weston. b Wheat.	1
	a Corn.	2
93.	Tone, Lewis, Weston. Corn.	2
94.	Wade, Ojeda, Weston. Corn.	2
95.	Wan, J. H., Richards. Wheat in straw.	1
96.	Weeks, Amos, Lima. Wheat in straw.	1
97.	Western Cemetery Association, West- ton. Grass seed.	8
98.	Whipps, W. H., Marion. a Wheat.	1
	b Corn.	2
	c Oats.	3
99.	Whipp, W. D., Marion. Corn.	2
100.	Williams, Berry, Buter County. Corn.	2
101.	Williamson, S., Buter County. Wheat in straw.	1
102.	Williamson, S., Butler. Wheat in straw.	1
103.	Winchester, W. R., Adams County. Wheat in straw.	
GROUP 5.		
104.	Croft, Thomas, Toledo. Vegetable seed.	32
105.	Heckerman, David, Neopolis. Vege- table seeds.	32
106.	Huber, Allen, Logan County. Ten va- rieties vegetable seed.	32
107.	Johnson, Fred, Toledo. Vegetable seeds.	32
108.	Neifer, Albert, Weston. 138 varie- ties of vegetables.	32
GROUP 8.		
109.	Aikey, J. C., Horatio. Dutch seed leaf tobacco.	48
110.	Alexander, Joseph, Miamisburg. Span- ish and Dutch seed leaf tobacco.	48
111.	Andrews, Henry, Georgetown. White burley seed leaf tobacco.	48
112.	Arnstatt, Val., Bantam. White bur- ley seed leaf tobacco.	48
113.	Baker, S. J., Arcanum. Pennsylvan- ia seed leaf tobacco.	48
114.	Beechler, Jonathan, Farmersville. Pennsylvania seed leaf tobacco.	48
115.	Binkley, Henry, Miamisburg. Ohio and Dutch seed leaf tobacco.	48
116.	Brown, Henry, Batavia. White bur- ley seed leaf tobacco.	48
117.	Burns, Thos. A., Versailles. Ohio and dutch seed leaf tobacco.	48
118.	Busch, Lewis, Bantam. White burley seed leaf tobacco.	48
119.	Clark, Anthony, Arcanum. Ohio seed leaf tobacco.	48
120.	Coles, C. A., Farmersville. Spanish seed leaf tobacco.	48
121.	Cox, Chas., Covington. Spanish seed leaf tobacco.	48
122.	Davis, H. C., West Milton. Spanish seed leaf tobacco.	48
123.	Duckwall, Batavia. White burley seed leaf tobacco.	48
124.	Evans, W.H., Farmersville. Pennsyl- vania seed leaf tobacco.	48
125.	Fley, Jacob, Georgetown. White bur- ley seed leaf tobacco.	48
126.	Gardner, Henry, Ripley. White bur- ley seed leaf tobacco.	48
127.	Hohn, Fred, Versailles. Ohio and Dutch seed leaf tobacco.	48
128.	Hullser, Wm., Greenville. Ohio and Spanish seed leaf tobacco.	48
129.	Judy, A. H., New Madison. Ohio seed leaf tobacco.	48
130.	Keener, Solomon, Liberty. Pennsyl- vania seed leaf tobacco.	48
131.	Kowler, Anthony, Ripley. White burley seed leaf tobacco.	48

DEPARTMENT A.—AGRICULTURE.

132. Kroffsinger, John, Versailles. Ohio
seed leaf tobacco. 48
133. Lautz, John, Landis. Dutch seed leaf
tobacco. 48
134. London, James E., Georgetown. White burley
seed leaf tobacco. 48
135. Martin, S. C., Horatio. Dutch seed
leaf tobacco. 48
136. Pangburn, Lines, Ripley. White burley
seed leaf tobacco. 48
137. Patton, Cal., Liberty. Pennsylvania
seed leaf tobacco. 48
138. Scott, Thos. S., Troy. Spanish seed
leaf tobacco. 48
139. Shafer, Joseph, Cedar Hill. Dutch
seed leaf tobacco. 48
140. Shock, D. W., Ansonia. Ohio seed
leaf tobacco. 48
141. Smith, John W., Arcanum. Spanish
seed leaf tobacco. 48
142. Sneider, Val., Ripley. White burley
seed leaf tobacco. 48
143. Starrett, J. A., Troy. Ohio seed leaf
tobacco. 48
144. Stillwell, John J., Troy. Ohio seed
leaf tobacco. 48
145. Tatman, J. C., Batavia. White burley
seed leaf tobacco. 48
146. Thalman, John, Stone Lick. White
Burley seed leaf tobacco. 48
147. Thoma, Benj., Troy. Spanish seed
leaf tobacco. 48
148. Weaver, Thos. H., Georgetown. White burley
seed leaf tobacco. 48
149. Wissinger, John, West Milton. Spanish and Dutch
seed leaf tobacco. 48
150. Yount, Peter, Gettsburg. Ohio seed
leaf tobacco. 48
151. Zeller, Henry, Bloomers. Ohio seed
leaf tobacco. 48
152. Zeller, Theo., West Milton. Spanish
seed leaf tobacco. 48

GROUP 9.

153. Backston & Son, Hopedale. Wool. 60
154. Brocaw, Jacob, New Athens. Wool. 60
155. Brown, J. W., New Athens. Wool. 60
156. Cappenter, J. W., Bateville. Wool. 60
157. Cezatt, J., Tappan. Wool. 60
158. Craig, Walter, Cadiz. Wool. 60
159. Cusick, B., Marion. Wool. 60
160. Dahyer, John, Uniontown. Wool. 60
161. Dunlap, A. J., New Athens. Wool. 60
162. Dunlap, Hugh, New Athens. Wool. 60
163. Dunlap, Samuel M., Cadiz. Wool. 60
164. Ecleston & Son, Updegraf. Wool. 60
165. Furgeson, J. P., Fairpoint. Wool. 60
166. Garen, Archibald, Belmont Ridge.
Wool. 60
167. Gillespie, W. C. & Thos., Shepards-
town. Wool. 60
168. Glover, G. W., Cadiz. Wool. 60
169. Griffin, Wm., Cadiz. Wool. 60
170. Hatfield, Nathan, Cadiz. Wool. 60
171. Hays, J. D., Lafferty. Wool. 60
172. Holms, Clifford, Cadiz. Wool. 60
173. Hull, Jacob, & Son, Flushing. Wool. 60
174. Ladd, J., Belmont Ridge. Wool. 60
175. Lisle, David, & Son, Uniontown.
Wool. 60
176. Lodge, Wm., Belmont Ridge. Wool. 60
177. Love, Thomas, Fairpoint. Wool. 60
178. McFadden, Samuel R., New Athens.
Wool. 60
179. McKee, Henry, Cadiz. Wool. 60
180. Milliken, Wm., Cadiz. Wool. 60
181. Porter, B. S., Cadiz. Wool. 60
182. Ritchie, D. J., Uniontown. Wool. 60
183. Starr, Joseph, Updegraf. Wool. 60
184. Watson, John, Fairpoint. Wool. 60
185. Watson, John, New Athens. Wool. 60

PENNSYLVANIA.

GROUP 1.

1. Alten, J. S., McMinn. 1
a Wheat. 2
b Corn. 3
c Oats. 1
2. Allegheny County Home, Woodville. 1
Wheat. 5
- 2a. Amer, G. A., Bath. Rye. 1
3. Aten, H. A., Carnot. Wheat. 1
4. Aten, J., Sabveski, McMinn. Oats. 3
5. Baker, Thomas, Octoraro. 1
a Wheat. 3
b Oats. 7
6. Battin, B. F., Greenwood. Buck-
wheat. 3
7. Bean, M. B., Dalton. Oats. 1
8. Benninger, W. M., Walnutport. 1
Wheat. 3
9. Bennisson, S. H., Abdera. 1
a Wheat. 3
b Oats. 3
10. Beyer, Simon, Eyer's Grove. Oats. 3
11. Bierer, John L., Ft. Hunter. Wheat. 1
12. Bird, Charles, Millview. Corn. 2
13. Bittenbender, D. Y., Alburtis. Corn. 2
14. Blackburn, Wm. C., New Hope. 1
Wheat. 2
15. Blair, J. H., Bath. Corn. 1
16. Bohn, Edward K., Robesonia. 1
a Wheat. 3
b Oats. 5
17. Boose, A. J., Meyersdale. 1
a Wheat. 3
b Oats. 5
c Rye. 1
18. Bottorf, P. F., Pine Grove Mills. 1
a Wheat. 3
b Oats. 3
19. Branson, D. H., Atglen. 2
a Corn. 3
b Oats. 1
20. Brewer, Clayton J., McConnellsburg. 1
Wheat. 1
21. Brown, J. M., Butztown. 1
a Wheat. 3
b Oats. 2
22. Bunting, J. M., Glen Mills. Corn. 2
23. Burpee, W. A., Philadelphia. Corn. 2

UNITED STATES.

24. Calvin, H. H., Dalton.			72. Hoffman, Peter, Scalp Level.		
<i>a</i> Corn.	2		<i>a</i> Wheat.	1	
<i>b</i> Rye.	5		<i>b</i> Oats.	3	
25. Cary, G. W., Locust Lane. Wheat.	1		73. Hoy, H. K., Bellefonte. Wheat.	1	
26. Clapp, Thomas L., Limestoneville.			74. Huber, David B., Neffsville. Oats.	3	
Corn.	2		75. Hunter, J. A., Stormstown. Corn.	2	
27. Clark, Wm. H., Oakdale Station.			76. Hurley, Wm. W., New Hope. Wheat.	1	
Wheat.	1		77. Inscho, W. W., Canoe Camp. Buck-		
28. Cloud, James, Oxford. Corn.	2		wheat.	7	
29. Cloud, James, Russelville. Corn.	2		78. Jemkin, Joseph, Mercer.		
30. Comact, G. A., Springville. Oats.	3		<i>a</i> Corn.	2	
31. Comact, George W., Lynn. Wheat.	1		<i>b</i> Oats.	3	
32. Conner, S. J., Berwick.			79. Kemmer, J. W., Nazareth. Wheat.	1	
<i>a</i> Wheat.	1		80. Kendall, W. A., McConnellsburg.		
<i>b</i> Oats.	3		<i>a</i> Corn.	2	
<i>c</i> Rye.	5		<i>b</i> Timothy seed.	8	
33. Conrad, Robert, Soleburg. Wheat.	1		81. Kester, N., Mardensville. Corn.	2	
34. DeMatt, Cyrus, Millville. Corn.	2		82. King, Geo. D., Chadd's Ford Junction.		
35. Derr, Jacob, Millville. Rye.	5		Corn.	2	
36. Durst, George, Centre Hall. Wheat.	1		83. Knapp, C. F., Falls. Oats.	3	
37. Eckert, Wm., Robesonia. Corn.	2		84. Kupf, H. S., Shiremanstown.		
38. Engle & Son, H. M., Marietta. Corn.	2		<i>a</i> Wheat.	1	
39. Evans, Francis, Brandywine. Wheat.	1		<i>b</i> Oats.	3	
40. Evans, Samuel, Swarthmore. Wheat.	1		<i>c</i> Rye.	5	
41. Everhart, John, Franklinville.			85. Lancaster, N. D., Chadd's Ford. Corn.	2	
<i>a</i> Wheat.	1		86. Landis, Henry K., Lancaster. Wheat.	1	
<i>b</i> Oats.	3		87. Lanesburg, John, Canoe Camp. Corn.	2	
42. Everhart, John, Stormstown. Corn.	2		88. Lussey, S. C., Hollidaysburg. Corn.	2	
23. Fansolo, David, Sunbury.			89. Madaro, Amos D., Robesonia. Oats.	3	
<i>a</i> Wheat.	1		90. Martin, Wm. J., Catawissa. Wheat.	1	
<i>b</i> Oats.	3		91. Mather, H. E., Greenwood. Corn.	2	
44. Faresolo, David, Sunbury. Corn.	2		92. McClue, B. B., Bath. Wheat.	1	
45. Faucett, Henry, Dilworthtown.			93. McClure, B. B., Bath. Corn.	2	
<i>a</i> Wheat.	1		94. McGrau, J. G., Newry. Buckwheat.	7	
<i>b</i> Corn.	2		95. McGrau, J. S., Newry. Oats.	3	
46. Fause, B. B., Huntington. Wheat.	1		96. McGrau, John Y., Newry. Wheat.	1	
47. Fink, Daniel F., Allentown.			97. McMan, J. J., Cheney. Corn.	2	
<i>a</i> Wheat.	1		98. McNary, J. R., Burgettstown. Wheat.	1	
<i>b</i> Oats.	3		99. McSparrow, James G., Furniss.		
<i>c</i> Rye.	5		<i>a</i> Wheat.	1	
48. Forney, M. J., East Petersburg. Rye.	5		<i>b</i> Oats.	3	
49. Frain, Isaac S., Abdera. Oats.	3		100. Miller, Henry J., Catawissa.		
50. Fulleroff, Howard, Centre Hall. Corn.	2		<i>a</i> Wheat.	1	
51. Garrett, Wm. S., Chadd's Ford. Corn.	2		<i>b</i> Corn.	2	
52. Gates, Luther & Son, Benore. Wheat.	1		<i>c</i> Oats.	3	
53. Gibson, John M., Blairsville.			<i>d</i> Rye.	5	
<i>a</i> Wheat.	1		<i>e</i> Buckwheat.	7	
<i>b</i> Corn.	2		101. Miller, John, Brandywine. Wheat.	1	
<i>c</i> Oats.	3		102. Miller, John, Frankstown. Rye.	5	
54. Gibson, Michael, Mansfield. Oats.	3		103. Molynenh, J. S., Millview. Wheat.	1	
55. Glatt, John, Chadd's Ford. Corn.	3		104. Naginey, M. M., Milroy.		
56. Gravell, David, Upper Providence.			<i>a</i> Corn.	2	
Wheat.	1		<i>b</i> Oats.	3	
57. Greider, M. G., Mount Joy. Wheat.	2		<i>c</i> Rye.	5	
58. Griclen, L. M., Mount Joy. Oats.	3		<i>d</i> Timothy seed.	8	
59. Grove, J. S., Tionesta. Corn.	2		105. Naginey, W. W., Milroy. Wheat.	1	
60. Habbersell, E., Mt. Alverno. Wheat.	1		106. Nesbit, W. H., Milton. Corn.	2	
61. Habersett, J. P., Knowlton.			107. Nesbit, W. N., Milton. Oats.	3	
<i>a</i> Wheat.	1		108. Nichols, John, Brandenburg.		
<i>b</i> Corn.	2		<i>a</i> Wheat.	1	
62. Haversett, Edmona, Mt. Alverno.			<i>b</i> Corn.	2	
Corn.	2		109. Patterson, W. C., McConnellsburg.		
63. Harvey, Abram, Brandywine. Corn.	2		Timothy seed.	8	
64. Harvey, Ralph W., Ward. Wheat.	1		110. Patterson, W. C., State College.		
65. Harvey, R. M., Ward. Corn.	2		<i>a</i> Wheat.	1	
66. Heed, John C., West Chester. Corn.	2		<i>b</i> Oats.	3	
67. Heil, J. D., Brodhead. Barley.	4		111. Piper, D. G., Locust Lane. Wheat.	1	
68. Heister, Gabriel, Harrisburg. Wheat.	1		112. Pitts, John F., Mansfield. Wheat.	1	
69. Hess, Jacob W., Oregon. Wheat.	1		113. Porter, Wm. A., Franklinville.		
70. Heyburn, C. R., Camp Ground. Corn.	1		<i>a</i> Wheat.	1	
71. Heyburn, M. S., Brandywine. Corn.	2		<i>b</i> Corn.	2	
			<i>c</i> Oats.	3	
			114. Ream, Henry, Neffsville. Rye.	5	

DEPARTMENT A.—AGRICULTURE.

115. Reeder, E., New Hope.		136. Thatcher, Howard, Brandywine.	
<i>a</i> Corn.	2	<i>a</i> Wheat.	1
<i>b</i> Oats.	3	<i>b</i> Corn.	2
116. Reese, Wm., Greenwood. Corn.	2	137. Tompson, E. A., Beech Cliff. Wheat.	1
117. Robinson, Chas., Mercer. Corn.	2	138. Tussey, A. C., Hollidaysburg. Wheat.	1
118. Robinson, Wm. M., Mooresburg. Corn.	2	139. U. S. Indian School, Carlisle.	
119. Robb, John D., Oakdale Station.		<i>a</i> Wheat.	1
Wheat.	1	<i>b</i> Corn.	2
120. Rothrock, David, Bellefonte. Wheat.	1	<i>c</i> Oats.	3
121. Sahm, Aaron, Neffsville, Oats.	3	140. Walter, Reno, Mifflinburg. Wheat.	1
122. School, W. L., West Newton.		141. Warman, Thos., Bath.	
<i>a</i> Wheat.	1	<i>a</i> Corn.	2
<i>b</i> Corn.	2	<i>b</i> Buckwheat.	7
123. Schweitzer, R. T., Bethlehem. Oats.	3	142. Weimer, Peter, Wittenberg. Buck-	
124. Scott, Alexander, Concordville.		wheat.	7
Wheat.	1	143. Wolfe, John, Rebersburg. Wheat.	1
125. Seat, Howard E., Chadd's Ford Junction. Corn.	2	144. Woodbridge, J. A., Dalton. Oats.	3
126. Shamapelt, Wm., Brinkerton. Corn.	2	145. Young, A. P., Milville.	
127. Shannafelt, Wm., Brinkerton. Wheat.	1	<i>a</i> Wheat.	1
128. Sherwood, G. K., Falls.		<i>b</i> Corn.	2
<i>a</i> Wheat.	1	<i>c</i> Oats.	3
<i>b</i> Oats.	3	146. Young, J. W., Romola. Oats.	3
129. Shivery, D. H., Bellefonte. Barley.	4	147. Zeigler, John W., Rebersburg. Wheat.	1
130. Smith, Casper, Farmer's Valley. Corn.	2	148. Zeisenheim, C., Girard.	
131. Smith, Casper, Farmers Valley. Corn.	2	<i>a</i> Oats.	3
132. Smith, Joel, Glenburn. Oats.	3	<i>b</i> Barley.	4
133. Smith, S. W., Centre Hall. Oats.	3		
134. Snowberger, J. B., McKee's Gap.			
Corn.	2		
135. Snyder, G. S., Middleburg.			
<i>a</i> Wheat.	1		
<i>b</i> Corn.	2		

Group 9.

149. Woman's Silk Culture Ass'n., Philadelphia.	C-A-1
<i>a</i> Silk products representing silk culture in the U. S.	
<i>b</i> Cocoons	
<i>c</i> Silk flags and American-made reels.	61

SOUTH DAKOTA.

GROUP 1.

1. Abbott, Wm., Tyndall. Glass.	8	18. Boek, O., Madison. Oats.	3
2. Ackles, W. B., Spearfish. Wheat.	1	19. Bornes, Fred, Watertown.	
3. Alen, Mrs. S., Elk Point. Corn.	2	<i>a</i> Wheat.	1
4. Alexander, J. B., Watertown. Wheat.	1	<i>b</i> Oats.	3
5. Atten, C., Center. Wheat.	1	20. Bowman, Wm., Spearfish. Oats.	3
6. Avery, I., Brookings. Millet.	8	21. Bradley, D. W., Watertown. Oats.	3
7. Babb, M. L., Mitchell.		22. Bridenbaugh, C., Fire Steel. Wheat.	1
<i>a</i> Wheat.	1	23. Briggs, Alfred, Watertown. Oats.	3
<i>b</i> Grasses.	8	24. Brown, Chet, Mitchell.	
8. Babcock, Ira & Jay C., Sioux Falls.		<i>a</i> Corn.	2
<i>a</i> Oats.	3	<i>b</i> Rye.	5
<i>b</i> Barley.	4	<i>c</i> Grass.	8
9. Bachman, C. F., Watertown. Wheat.	1	25. Brown, Crawford, Kampeska. Wheat.	1
10. Balenger, C., Vermillion. Corn.	2	26. Brubacher, J. A., Elk Point. Corn.	2
11. Ball, Isaac, Watertown.		27. Bruce, Charles, Yankton. Wheat.	1
<i>a</i> Wheat.	1	28. Bryant, C. H., Sioux Falls. Blue	
<i>b</i> Oats.	3	joint grass.	8
12. Ball, James G., Watertown. Oats.	3	29. Bryany, W. H., Ellis.	
13. Bartlett, George, Watertown.		<i>a</i> Wheat.	1
<i>a</i> Wheat.	1	<i>b</i> Oats.	3
<i>b</i> Oats.	3	30. Caldwell, W. A., Brookings. Wheat.	1
14. Belding, D. K., Palatine. Grass.	8	31. Carlson, C. A., Beresford.	
15. Benjamin, D. F., Beresford.		<i>a</i> Wheat.	1
<i>a</i> Wheat.	1	<i>b</i> Corn.	2
<i>b</i> Corn.	2	<i>c</i> Oats.	3
<i>c</i> Oats.	3	32. Carlson, J., Mitchell.	
<i>d</i> Grass.	8	<i>a</i> Wheat.	1
16. Bergstresser, Fred, Wentworth.		<i>b</i> Grass.	8
Grasses.	8	33. Carpenter, George, Watertown. Oats.	3
17. Bland, Arthur, Civil Bend. Corn.	2	34. Carter, P., Elk Point. Corn.	2
		35. Chansee, A., Elk Point. Corn.	2

UNITED STATES.

36. Clark, C., Mitchell.			
a Wheat.	1		
b Corn.	2		
37. Clark, F. H., Plankinton.			
a Corn.	2		
b Oats.	3		
c Grass.	8		
38. Coleman, C. M., Folsom. Corn.	2		
39. Colgan, Hugh, Tyndall. Grass.	8		
40. Conrad, Edward, Orland. Wheat.	1		
41. Cook, John, Stover. Grass.	8		
42. Cosand, Charles F., Hartford. Hun-			
garian grasses.	8		
43. Cowles, E. D., Vermillion.			
a Wheat.	1		
b Corn.	2		
44. Crandall, Phineas, Loretta. Rye.	5		
45. Crow, L. T., Madison.			
a Wheat.	1		
b Oats.	3		
c Grass.	8		
46. Crum, John, Elk Point. Corn.	2		
47. Crum, P., Elk Point. Corn.	2		
48. Curley, T., Henry. Wheat.	1		
49. Daurel, J. M., Fairburn. Wheat.	1		
50. Davidson, Walter, Watertown.			
Wheat.	1		
51. Davie, Albert, Sioux Falls.			
a Wheat.	1		
b Oats.	3		
52. Deitrick, Charles, Spearfish. Alfalfa			
grass.	9		
53. Dixon, Joseph, Madison. Corn.	2		
54. Dodge, Wm., Mitchell. Oats.	3		
55. Doly, H., White. Oats.	3		
56. Donevah, Michael, Loretta. Timothy			
grass.	8		
57. Eddy, James, A., Long Creek.			
a Wheat.	1		
b Corn.	2		
c Oats.	3		
d Grass.	8		
58. Evans, Robert, Spearfish. Alfalfa			
grass.	9		
59. Fancier, N. C., Fire Steel. Grass.	8		
60. Fargo, S. C., Gayville. Corn.	2		
61. Fishback, Levi, Yankton. Wheat.	1		
62. Flannery, John, Elk Point. Corn.	2		
63. Folger, A., Watertown. Grass.	8		
64. Foster, James, South Shore. Wheat.	1		
65. Fowles, J. A., Canton.			
a Wheat.	1		
b Corn.	2		
c Oats.	3		
d Rye.	5		
e Grass.	8		
66. Fry, D., Belford. Wheat.	1		
67. Gale, Chas., White. Wheat.	1		
68. Geise, John, Watertown. Wheat.	1		
69. Gerber, Fred, Worthing.			
a Wheat.	1		
b Corn.	2		
c Oats.	3		
d Barley.	4		
70. Green, H., Mitchell. Grasses.	8		
71. Greiner, Fred, Watertown. Oats.	3		
72. Greiner, J., Watertown.			
a Wheat.	1		
b Oats.	3		
73. Griffith, John W., Canton.			
a Wheat.	1		
b Oats.	3		
c Barley.	4		
74. Groves, J. A., Dexter.			
a Oats.	3		
b Buckwheat.	7		
75. Haight, Jessie, Watertown.			
a Wheat.	1		
b Oats.	3		
76. Hajen, I. W., Fairburn. Wheat.	1		
77. Hall, J. B., Mitchell.			
a Wheat.	1		
b Corn.	2		
c Barley.	4		
d Grass.	8		
78. Hanson, C. P., Alexandria. Wheat.	1		
79. Hanson, John, Hermosa. Rye.	5		
80. Harriman, Wm., Spearfish. Oats.	3		
81. Harson, Amos, Elk Point. Corn.	2		
82. Hartman, N., Mt. Vernon. Wheat.	2		
83. Hayward, D., Sioux Falls. Millet.	9		
84. Hayward, O. A., Sioux Falls. Long			
grass.	8		
85. Hatter, W., Elk Point. Corn.	2		
86. Heming, H. P., South Shore. Wheat.	1		
87. Herley, George, Mitchell.			
a Wheat.	1		
b Millet.	8		
88. Hernald, Theo., Hermosa. Wheat.	1		
89. Honeywill, Smith, Watertown.			
Wheat.	1		
90. Hughson, J., Brookings. Millet.	8		
91. Hughson, J. H., Brookings.			
a Wheat.	1		
b Oats.	3		
92. Hutgen, Mat., Tyndall.			
a Wheat.	1		
b Oats.	3		
c Barley.	4		
93. Hyde, C., Vermillion. Corn.	2		
94. Isard, Peter, Spearfish. Wheat.	1		
95. Jackson, J., Mitchell.			
a Wheat.	1		
b Grass.	8		
96. Jenks, D. F., Yankton. Corn.	2		
97. Jones, John A., Watertown. Wheat.	1		
98. Johnson, G. W., Madison. Grasses.	8		
99. Johnson, J. M., Mitchell. Wheat.	1		
100. Johnson, J., Tyndall. Timothy grass.	8		
101. Johnston, P. G., South Shore. Wheat.			
	1		
102. Johnson, V., Spearfish. Corn.	2		
103. Juck, Thomas, Gayville.			
a Wheat.	1		
b Oats.	3		
104. Kampshoff, Frank, Mitchell. Grasses.	8		
105. Kartredt, G. S., Canton.			
a Wheat.	1		
b Corn.	2		
c Oats.	3		
d Barley.	4		
e Rye.	5		
f Grass.	8		
106. Keene, James, Hudson.			
a Wheat.	1		
b Corn.	2		
c Oats.	3		
d Barley.	4		
e Grass.	8		
107. Kinsey, F. W., Castlewood. Wheat.	1		
108. Kinsman, C. E., Watertown. Wheat.	1		
109. Krause, Fred., Watertown.			
a Wheat.	1		
b Oats.	3		

DEPARTMENT A.—AGRICULTURE.

110. Kumper, B., Spearfish.		143. Mulholland, J. C., Watertown.	
<i>a</i> Oats.	3	<i>a</i> Wheat.	1
<i>b</i> Grass.	8	<i>b</i> Oats.	3
111. Larson, L., Gayville. Corn.	2	144. Munger, W. H., Watertown.	
112. Larson, H. P., Tyndall.		<i>a</i> Wheat.	1
<i>a</i> Wheat.	1	<i>b</i> Oats.	3
<i>b</i> Barley.	4	145. Murdock, M., Elk Point. Corn.	2
<i>c</i> Rye.	5	146. Myer, W. L., South Shore. Wheat.	1
<i>d</i> Clover and field peas.	9	147. Nelson, August, Spearfish. Slough	
113. Lee & Prentice, Vermillion. Corn.	2	grass.	8
114. Leutz, Albert, Watertown. Wheat.	1	148. Newton, M., Pleasant Lake. Corn.	2
115. Leutz, F. L., Watertown.		149. Nisbet, T. F., Watertown. Wheat.	1
<i>a</i> Wheat.	1	150. Norbeck, C. L., Aurora. Wheat.	1
<i>b</i> Oats.	3	151. Northrop, C., Elk Point. Corn.	2
116. Lindner, Peter, Sr., Krauzberg.		152. Olson, Austin, Canton.	
Wheat.	1	<i>a</i> Wheat.	1
117. Logan, W. M., Mitchell.		<i>b</i> Corn.	2
<i>a</i> Wheat.	1	<i>c</i> Oats.	3
<i>b</i> Rye.	5	<i>d</i> Barley.	4
<i>c</i> Millet and timothy.	8	<i>e</i> Grass.	8
<i>d</i> Clover.	9	153. Ottens, O. T., Brookings. Oats.	3
118. Mabbot, J. R., Hopper. Oats.	3	154. Overset, Ole, Hudson.	
119. Mahoney, M., Watertown. Wheat.	1	<i>a</i> Wheat.	1
120. Maley, John, Shurley. Wheat.	1	<i>b</i> Corn.	2
121. Mallett, A. C., Watertown.		<i>c</i> Oats.	3
<i>a</i> Wheat.	1	<i>d</i> Barley.	4
<i>b</i> Millet.	8	<i>e</i> Grass.	8
122. Mapes, Orrin, Watertown. Oats.	3	155. Pace, J., Civil Bend. Corn.	2
123. Markins, A. W., Waverly. Wheat.	1	156. Parry, Wm. G., Dudley. Oats.	3
124. Masiker, A., Franklin. Barley.	4	157. Patterson, John, Madison. Corn.	2
125. Maxwell, W., Vermillion. Corn.	2	158. Perkins, Ira, Mt. Vernon.	
126. McDowell, Wm., Fairburn. Wheat.	1	<i>a</i> Wheat.	1
127. McFarland, A. B., Haram.		<i>b</i> Grasses.	8
<i>a</i> Wheat.	1	159. Peterson, Peter, Hermosa. Oats.	3
<i>b</i> Corn.	2	160. Pfifer, Herbert, Watertown. Wheat.	1
<i>c</i> Oats.	3	161. Pfifer, J., Watertown. Wheat.	1
<i>d</i> Grass.	8	162. Pierson, John, Yankton.	
128. McGuire, B., Elk Point. Corn.	2	<i>a</i> Corn.	2
129. McIntyre, A. M., Watertown. Oats.	3	<i>b</i> Alfalfa and clover.	9
130. McIntyre, R. M., Watertown.		163. Piper, Wm., Avon.	
<i>a</i> Wheat.	1	<i>a</i> Wheat.	1
<i>b</i> Oats.	3	<i>b</i> Oats.	3
131. Merchant, Albert, Spokane.		164. Pnusz, Fritz, Hartford.	
<i>a</i> Wheat.	1	<i>a</i> Red top grasses and timothy.	8
<i>b</i> Oats.	3	<i>b</i> Red Clover.	9
132. Messersmidt, I., White. Oats.	3	165. Pratt, Herbert, Spearfish. Corn.	2
133. Metcalf, Geo., White.		166. Prentice, J., Brookings. Millet.	8
<i>a</i> Wheat.	1	167. Pratt, J. S., Spearfish.	
<i>b</i> Oats.	3	<i>a</i> Corn.	2
<i>c</i> Barley.	4	<i>b</i> Grasses.	8
134. Michaels, John, Watertown.		<i>c</i> Clover and alfalfa.	9
<i>a</i> Wheat.	1	168. Preston, H. C., Mitchell. Wheat.	1
<i>b</i> Oats.	3	169. Purcell, Robert, Kampeska. Wheat.	1
135. Millage, John, Canton.		170. Rackerville, C. R., Hermosa. Buck-	
<i>a</i> Wheat.	1	wheat.	7
<i>b</i> Oats.	3	171. Rau, L., Watertown. Wheat.	1
<i>c</i> Barley.	4	172. Richardson, D., Watertown. Oats.	3
136. Miller, Otis, Pleasant Lake. Corn.	2	173. Ringheim, A. A., Canton.	
137. Miller, W., Alexandria. Wheat.	1	<i>a</i> Wheat.	1
138. Miller, W. H., Canton.		<i>b</i> Corn.	2
<i>a</i> Wheat.	1	<i>c</i> Oats.	3
<i>b</i> Corn.	2	<i>d</i> Barley.	4
<i>c</i> Oats.	3	<i>e</i> Grass.	8
<i>d</i> Barley.	4	174. Risling, Phillip, Yankton. Corn.	2
<i>e</i> Grass.	8	175. Robertson, Chas., Spokane. Wheat.	1
139. Millet, Joseph E., Hudson.		176. Robinson, M. A., Mitchell. Grasses.	8
<i>a</i> Corn.	2	177. Sandren, John, Worthing.	
<i>b</i> Oats.	3	<i>a</i> Wheat.	1
140. Montague, Dave, Vermillion. Corn.	2	<i>b</i> Oats.	3
141. Moorehouse, A. S., Henry. Wheat.	1	<i>c</i> Barley.	4
142. Morrison, George A., Sioux Falls.		178. Sanford, John, Tyndall. Rye.	5
Barley.	4	179. Sawdusky, Samuel, Spearfish. Oats.	3

UNITED STATES.

180.	Schulze, F. P., Watertown.		<i>b</i> Corn.	2
	<i>a</i> Wheat.	1	<i>c</i> Oats.	3
	<i>b</i> Oats.	3	<i>d</i> Barley.	4
181.	Schulze, L., Watertown.		<i>e</i> Rye.	5
	<i>a</i> Wheat.	1	212. Tracy, G., Watertown.	
	<i>b</i> Oats.	3	<i>a</i> Wheat.	1
182.	Seville, John, Hopper.		<i>b</i> Oats.	3
	<i>a</i> Wheat.	1	213. Tyler, Alfred, White. Oats.	3
	<i>b</i> Oats.	3	214. Vincent, Wm., Elk Point. Corn.	2
183.	Seville, G. W., Hopper. Rye.	5	215. Walkin, M., Castlewood.	
184.	Seymour, F., Watertown. Wheat.	1	<i>a</i> Wheat.	1
185.	Shelwold, Earnest, White. Wheat.	1	<i>b</i> Corn.	2
186.	Sheppardson, Charles, Gayville.		216. Walkus, C., Avon. Timothy grass.	8
	<i>a</i> Wheat.	1	217. Wallace, N. J., Elk Point. Corn.	2
	<i>b</i> Corn.	2	218. Walters, B. F., Spearfish. Red-top.	8
187.	Shouse, H. C., Plankinton. Wheat.	1	219. Weisser, John, Tyndall. Wheat.	1
188.	Skinner, Samuel, Brookings. Oats.	3	220. Wells, Fred., Bon Homme. Oats.	3
189.	Slade, W. K., Hudson.		221. Wells, Joseph, Spearfish.	
	<i>a</i> Wheat.	1	<i>a</i> Rye.	5
	<i>b</i> Corn.	2	<i>b</i> Buckwheat.	7
	<i>c</i> Oats.	3	222. Welsh, L. S., Watertown. Wheat.	1
	<i>d</i> Grass.	8	223. West, Daniel, Mitchell. Grasses.	8
190.	Smidt, A. G., Madison.		224. Whiting, George, Yankton. Corn.	2
	<i>a</i> Barley.	4	225. Wilson, L., Watertown.	
	<i>b</i> Timothy.	8	<i>a</i> Wheat.	1
191.	Smith, C. H., Madison. Wheat.	1	<i>b</i> Millet.	8
192.	Smith, Ira, Elk Point. Corn.	2	226. Willis, W., Watertown. Wheat.	1
193.	Smith, J. C., Fairburn. Wheat.	1	227. Wood, E. D., Elk Point. Corn.	2
194.	South Dakota Agr'l Experimental Station, Brookings.		GROUP 5.	
	<i>a</i> Wheat.	1	228. Brown, Chet, Mitchell. Beans.	32
	<i>b</i> Oats.	3	229. Cook, J. E., Spearfish. Beans.	32
	<i>c</i> Barley.	4	230. Jenks, D. F., Yankton. Beans and	
	<i>d</i> Rye.	5	pease.	32
	<i>e</i> Millet.	8	231. Kampshoff, Frank, Mitchell. Broom	
195.	Spanen, H., Brant Lake. Rye.	5	corn.	32
196.	Spencer, J. E., Watertown.		232. Pratt, J. S., Spearfish. Beans.	32
	<i>a</i> Wheat.	1	GROUP 9.	
	<i>b</i> Oats.	3	233. Anderson, C. J., Plankinton. Flax.	59
197.	Spencer, Samuel, Watertown. Oats.	3	234. Babcock, Ira & Jay C., Sioux Falls.	
198.	Spicer, George, Vermillion. Corn.	2	Flax.	59
199.	Sprig, G., Otis. Wheat.	1	235. Dixon, Joseph, Madison. Flax.	59
200.	Spurling, Ed., Brookings. Oats.	3	236. Fowles, J. A., Canton. Flax.	59
201.	Stephens, H., Elk Point. Corn.	2	237. Griffith, John W., Canton. Flax.	59
202.	Stephenson, L., Yankton. Grass.	8	238. Hughes, E., Tyndall. Flax.	59
203.	Stroup, J., South Shore. Wheat.	1	239. Kartredt, G. S., Canton. Flax.	59
204.	Sweet, J. B., Watertown.		240. Mapes, Orrin, Watertown. Flax.	59
	<i>a</i> Wheat.	1	241. Millage, John, Canton. Flax.	59
	<i>b</i> Oats.	3	242. Miller, W. H., Canton. Flax.	59
205.	Talcott, James, Elk Point. Corn.	2	243. Olson, Austin, Canton. Flax.	59
206.	Tarjo, Mrs. James, Vermillion.		244. Patterson, John, Madison. Flax.	59
	<i>a</i> Wheat.	1	245. Richardson, D., Watertown. Flax.	59
	<i>b</i> Corn.	2	246. Sandren, John, Worthing. Flax.	59
	<i>c</i> Oats.	3	247. Saunders, P. A., Mitchell. Flax.	59
207.	Tenvillije, Charles, Hermosa. Corn.	2	248. Schulze, F. P., Watertown. Flax.	59
208.	Terrant, Wm., Fairburn. Alfalfa.	9	249. Schulze, L., Watertown. Flax.	59
209.	Toms, M. G., Spearfish. Rye.	5	250. Spanen, H., Brant Lake. Flax.	59
210.	Toomey, Daniel, Spearfish. Grass.	8	251. Stroup, J., South Shore. Flax.	59
211.	Thorson, Samuel, Canton.		252. Thomas, D. C., Watertown. Flax.	59
	<i>a</i> Wheat.	1	253. Wilson, L., Watertown. Flax.	59

UTAH.

GROUP 1.

1. Agricultural College. Logan.	
<i>a</i> Wheat.	1
<i>b</i> Barley.	4
2. Armstrong, T. C., Salt Lake City.	
Wheat.	1
3. Barrett, George, Logan. Wheat.	1
4. Carlisle, John, Mill Creek. Oats.	3
5. Cazier, David, Nephi.	
<i>a</i> Wheat.	1
<i>b</i> Oats.	3
6. Christenson, C. L., Salem.	
<i>a</i> Wheat.	1
<i>b</i> Oats.	3
7. Ellis, Wm., Logan. Corn.	2
8. Handly, C. I., Salt Lake City.	
Barley.	4
9. Hanson, F. H., Salt Lake City.	
Wheat.	1
10. Hanson, T. H., Salt Lake City.	
Barley.	4
11. Hugl, Christian, Logan. Corn.	2
12. Jessop, Richard, Millville. Lucerne seed.	8
13. Kidman, Wm., Petersboro.	
<i>a</i> Wheat.	1
<i>b</i> Corn.	2

14. King, J., Logan. Corn.	2
15. Lemon, J. C., Ferron. Lucerne seed.	8
16. Mackay, John, Granger. Wheat in straw.	1
17. Manghan, C. W., Petersboro. Wheat in straw.	1
18. Middleton, C. F., Ogden. Wheat.	1
19. Moses, George, Taylorsville. Barley.	4
20. Oleson, T. F., Emery. Wheat.	1
21. Rayburn, Chas. W., Hyrum. Wheat.	1
22. Salisbury, Josiah, Wellsville. Barley.	4
23. Stalks, Morine, Lewiston. Wheat.	1
24. Titcomb, John, Mill Creek.	
<i>a</i> Wheat.	1
<i>b</i> Oats.	3
25. Woodfield, Wm., North Ogden.	
<i>a</i> Wheat.	1
<i>b</i> Barley.	4

GROUP 4.

26. Salisbury, Joshua, Millville. Onion and carrot seeds.	30
---	----

GROUP 5.

27. Allen, A. A., Cache. Beans.	32
28. Carlisle, John, Logan. Beans and peas.	32
29. Lofthouse, James, Paradise. Peas.	32

VIRGINIA.

GROUP 1.

1. Apperson, Jno. S. Marion.	
<i>a</i> Wheat.	1
<i>b</i> Corn.	2
2. Bedford County.	
<i>a</i> Wheat	1
<i>b</i> Oats.	3
3. Bransford, Mrs. Alice, Shirley. Hay.	8
4. Buckingham County.	
<i>a</i> Wheat.	1
<i>b</i> Corn.	2
<i>c</i> Oats.	3
5. Drewry, A. H., Westover. Corn.	2
6. Hanover County. Corn.	2
7. Hurt, Jno. L., Hurt's Store. Wheat.	1
8. Madison County.	
<i>a</i> Wheat.	1
<i>b</i> Corn.	2
<i>c</i> Oats.	3
9. Preston, Jno. M., Seven Mile Ford. Hay.	8
10. Prince Edward County.	
<i>a</i> Wheat.	1
<i>b</i> Corn.	2
11. Princess Anne County. Corn.	10
12. Shenandoah County.	
<i>a</i> Wheat.	1
<i>b</i> Corn.	2
<i>c</i> Oats.	3
<i>d</i> Hay.	8
13. Tynes, G. A., Tazewell. Blue grass sod.	8

GROUP 4.

14. Smith, I. C. Petersburg. Peanuts.	31
---------------------------------------	----

GROUP 5.

15. Bedford County. Pease.	32
16. Princess Anne County. Vegetables.	32

GROUP 8.

17. Averett & Harvey, Danville. Tobacco.	48
18. Bedford County. Tobacco.	48
19. Brown & Perkinson, Danville. Tobacco.	48
20. Cameron & Cameron, Richmond. Tobacco.	48
21. Cameron, Wm., & Bro. Tobacco.	48
22. Cosby, J. H., & Bro., Danville. Tobacco.	48
23. Dibblell Bros., Danville. Tobacco.	48
24. Dixon & Co., Danville. Tobacco.	48
25. Duld, C. C., Danville. Tobacco.	48
26. Grandy & Miller, Danville. Tobacco.	48
27. Henderson, J. A., Danville. Tobacco.	48
28. Hickey, C. H., Danville. Tobacco.	48
29. Holcomb, D. I., Danville. Tobacco.	48
30. Hughes, Geo. S., & Co., Danville. Tobacco.	48
31. Jones, E. K., Danville. Tobacco.	48
32. Jordan, M. P., Danville. Tobacco.	48
33. Lee, Geo. A., Danville. Tobacco.	48
34. Madison County. Tobacco.	48

UNITED STATES.

35. Pemberton & Penn, Danville. Tobacco.	48
36. Schofield, Boatright & Co., Danville. Tobacco.	48
37. Semple, Wm. M., & Co., Martinsville. Tobacco.	48
38. Spencer Bros., Martinsville. Tobacco.	48
39. Sutherland, Mead Tobacco Co., Danville. Tobacco.	48
40. Tobacco Ass'n, South Boston. Tobacco.	48

41. Venable, E. C., Danville. Tobacco.	48
42. Wemple & Co., Danville. Tobacco.	48
43. Williamson, T. S., Danville. Tobacco.	48

GROUP 9.

44. Nielson, T. B., Wool.	60
45. Preston, John M., Seven Mile Ford. Wool.	60
46. Sanders, John L., Chilhowie. Wool.	60
47. Smith, H. E., Suffolk. Cotton.	53

WEST VIRGINIA.

GROUP 1.

1. Adams, John D., Siloam.	1
<i>a</i> Wheat.	1
<i>b</i> Corn.	2
2. Alemander, J. S., Frankford. Rye.	5
3. Atkinson, J. C., Buffalo. Wheat.	1
4. Baker, Dennis, Marlow. Wheat.	1
5. Bane, John, Short Creek. Wheat.	1
6. Barlor, Geo., Charlestown. Wheat.	1
7. Barnett, G. W., Frazier's Bottom. Corn.	1
8. Barnett, J. W., & Bro., Rockport. Wheat.	1
9. Barnett, Thomas, Pliny. Wheat.	1
10. Barrett, J. D., Academy. Corn.	2
11. Baylor, Geo., Charlestown. Corn.	2
12. Beard, C. J., Flat Rock. Wheat.	1
13. Beard, David A., Martinsburg. Wheat.	1
14. Beckwith, Wm., Cottageville.	1
<i>a</i> Wheat.	1
<i>b</i> Corn.	2
15. Blayney, Ed., Potomac. Wheat.	1
16. Blayney, Jas., Potomac. Wheat.	1
17. Bobbett, E. P., Gap Mills. Corn.	2
18. Bobbett, H. P., Keenan. Corn.	2
19. Bobbett, R. W., Union. Corn.	2
20. Bobbett, Pen., Talcott. Corn.	2
21. Bobbett, Pendleton, Wolf Creek. Corn.	2
22. Bogger, Wm. R., Zenith. Buckwheat.	7
23. Booton, Mack, Wayne C. H. Wheat.	1
24. Branaugh, E. A., Buffalo.	1
<i>a</i> Wheat.	1
<i>b</i> Corn.	2
25. Brown, C. C., Buffalo. Wheat.	1
26. Brown, C. C., Charleston.	1
<i>a</i> Wheat.	1
<i>b</i> Corn.	2
27. Brown, B. W., Ravenswood.	2
<i>a</i> Corn.	2
<i>b</i> Oats.	3
28. Brown, Jas., Sandyville.	2
<i>a</i> Corn.	2
<i>b</i> Oats.	3
29. Brown, M. V., Buffalo.	1
<i>a</i> Wheat.	1
<i>b</i> Corn.	2
30. Burkhart, J. D., Martinsburg. Wheat.	1
31. Burkhart, J. D., Mineral Springs. Corn.	2
32. Burley, Jas. A., Thompson. Buckwheat.	7

33. Carson, Wm., McGill. Wheat.	1
34. Clipp, John W., Charlestown. Corn.	2
35. Coffenbarger, Jas. H., Shepherdstown. Wheat.	1
36. Conklyn, C. C., Charlestown. Corn.	2
37. Connely, M. T., Clinton.	1
<i>a</i> Wheat.	1
<i>b</i> Oats.	3
38. Cooper, W. P., Grimm's Landing. Corn.	2
39. Copperton, Allen, Union. Corn.	2
40. Couch, John B., Couch. Wheat.	1
41. Couch, P. S., South Side. Wheat.	1
42. Councleman, J. W., Bethany.	1
<i>a</i> Wheat.	1
<i>b</i> Corn.	2
<i>c</i> Oats.	3
43. Cox, Jack West Liberty.	2
<i>a</i> Corn.	2
<i>b</i> Oats.	3
44. Cox, T. R., Central City. Wheat.	1
45. Craft, D. C., Bethany. Corn.	2
46. Creum, T., Sandyville. Wheat.	1
47. Crow, G. B., Ripley. Oats.	3
48. Crow, J. B., Ripley.	2
<i>a</i> Corn.	2
<i>b</i> Oats.	3
49. Crimm, J. T., Sandyville. Oats.	3
50. Crow, Wm., Angerona.	1
<i>a</i> Wheat.	2
<i>b</i> Corn.	2
51. Curry, John G., Hamlin. Oats.	3
52. Cyrus, Abram. White Creek. Wheat.	1
53. Davis, Alvin, Love. Corn.	2
54. Dixon, Jas., West Liberty. Wheat.	1
55. Douglass, Hiram, Ripley.	2
<i>a</i> Corn.	2
<i>b</i> Oats.	3
56. Dunlop, Jas., Union. Corn.	2
57. Dunn, J. A., Maupins. Wheat.	1
58. Dunn, Wm., Leon. Corn.	2
59. Elexander, Henry, Frazier's Bottom. Wheat.	1
60. Ellis, Albert, Hurricane. Wheat.	1
61. Ellison, T. A., Frost Hill. Corn.	2
62. Estes, Jack, Peays. Wheat.	1
63. Everett, Jas., Milton. Wheat.	1
64. Farrell, D. W., Roneys Point. Corn.	2
65. Felker, A. G., Martinsburg. Barley.	4
66. Ferguson, C. W., Wayne. Corn.	2
67. Fergusson, Jas., Wayne, C. H. Corn.	2
68. Fergusson, Capt. S. J., Fergusson. Corn.	2

DEPARTMENT A.—AGRICULTURE.

69. Ferrier, M. P., Lewisburg.			106. Johnson, M., Hamlin.		
<i>a</i> Wheat.	1		<i>a</i> Wheat.	1	
<i>b</i> Oats.	3		<i>b</i> Oats.	3	
70. Foard, D. A., Pliny.			107. Keesucker, Jacob, Oakton. Wheat.	1	
<i>a</i> Wheat.	1		108. Kerrfoot, John B., Kearneysville.		
<i>b</i> Corn.	2		Wheat.	1	
<i>c</i> Oats.	3		109. Kernes, F. J., Pliny.		
71. Foard, T. W., Buffalo. Wheat.	1		<i>a</i> Wheat.	1	
72. Foram, W. W., West Liberty.			<i>b</i> Corn.	2	
Wheat.	1		110. Kyle, Ed., Huntington. Corn.	2	
73. Forney, C. C., Bethany.			111. Kyner, A. K., Martinsburg. Oats.	3	
<i>a</i> Wheat.	1		112. Landis, Joseph, Marlow. Wheat.	1	
<i>b</i> Buckwheat.	7		113. Leach, J. B., Sink's Grove. Wheat.	1	
74. Frazier, J. W., Frazier's Bottom.			114. Lemaster, A. J., Falling Water.		
Wheat.	1		Corn.	2	
75. Fowler, Jas., McGill. Corn.	2		115. Lemons, Wash., Sink's Grove.		
76. Gardner, J. W., Pt. Pleasant. Wheat.	1		<i>a</i> Wheat.	1	
Wheat.	1		<i>b</i> Corn.	2	
77. Garrett, W. B., Dickson. Corn.	2		116. Lemon, W. T., Sink's Grove. Wheat.	1	
78. Garrett, Wm. P., Dickson. Oats.	3		Wheat.	1	
79. Gibson, W. B., West Alexander.			117. Lemons, W. F., Sink's Grove. Corn.	2	
Wheat.	1		118. Lewis, W. G., Valley Grove.		
80. Goods, W. A., Frost Hill. Oats.	3		<i>a</i> Wheat.	1	
81. Gordon, A. W., Blennerhassett, Is-			<i>b</i> Rye.	5	
land. Corn.	2		119. Light, J. H., Bedington. Wheat.	1	
82. Gruber, Joseph, Martinsburg. Corn.	2		120. Lindington, J. C., Frankford. Oats.	3	
83. Gruse, Wm., West Liberty. Oats.	3		121. Little, Robt., Parkersburg. Corn.	2	
84. Guinn, A. B., Lowell. Corn.	2		122. Lockwood, John, White's Creek.		
85. Guinn Bros., Huntington. Wheat.	1		Oats.	3	
86. Hall, Thomas, Oldarker's Mill. Wheat.	1		123. Love, Peter, Love. Wheat.	1	
87. Hanley, John, Mercer's Bottom.			124. Lowton, Arnold, West Liberty. Oats.	3	
Wheat.	1		125. Ludington, C. I., Frankford. Oats.	3	
88. Hartley, Thomas, West Liberty.			126. Lupton, Edward, Martinsburg. Corn.	2	
<i>a</i> Wheat.	1		Wheat.	2	
<i>b</i> Corn.	2		127. Lynch, C. E., Union. Wheat.	1	
<i>c</i> Oats.	3		128. Lynch, G. T., Union. Wheat.	1	
89. Harvey, R. T., Buffalo.			129. Madden, Robert, Hamlin. Wheat.	1	
<i>a</i> Wheat.	1		130. Mann, B. F., Ft. Spring.		
<i>b</i> Corn.	2		<i>a</i> Corn.	2	
<i>c</i> Oats.	3		<i>b</i> Oats.	3	
90. Harwood, Jas., Potomac. Wheat.	1		131. Markham, Lee, Griffith.		
91. Haymon, Rich, Willow Grove.			<i>a</i> Wheat.	1	
<i>a</i> Corn.	2		<i>b</i> Corn.	2	
<i>b</i> Oats.	3		132. Maxwell Bros., Roney's Point.		
92. Hedges, A. V., West Liberty.			<i>a</i> Wheat.	1	
<i>a</i> Wheat.	1		<i>b</i> Corn.	2	
<i>b</i> Corn.	2		<i>c</i> Oats.	3	
93. Henshaw, E. S., Bunker Hill. Wheat.	1		133. Mays, J. S., Frankford.		
94. Herburt, W. A., Gerrardstown.			<i>a</i> Wheat.	1	
Wheat.	1		<i>b</i> Corn.	2	
95. High, Abel, Purgittsville. Wheat.	1		134. McCallister, Maj. J., Hickory.		
96. Hielt, Henry H., Hanging Rock.			<i>a</i> Wheat.	1	
<i>a</i> Wheat.	1		<i>b</i> Corn.	2	
<i>b</i> Corn.	2		135. McCausland, Gen. Jno., Grimm's		
97. Hodge, J. S., Peckaway. Wheat.	1		Landing.		
98. Hogg, William, Short Creek. Wheat.	1		<i>a</i> Wheat.	1	
Wheat.	1		<i>b</i> Oats.	3	
99. Holley, A. D., Hamlin. Corn.	2		136. McColloch, J. W., Clinton. Corn.	2	
100. Holly, Joel, Hamlin. Wheat.	1		137. McCulloch, J. W., Clinton.		
101. Hunter, J. A., Lilly Dale.			<i>a</i> Wheat.	1	
<i>a</i> Corn.	2		<i>b</i> Oats.	3	
<i>b</i> Oats.	3		138. McGarey, John D., Shenandoah.		
102. Jackson, H. A., Wayne. Corn.	2		<i>a</i> Wheat.	1	
103. Jacob, S. S., West Liberty.			<i>b</i> Corn.	2	
<i>a</i> Wheat.	1		139. McGuffin, J. B., South Side. Wheat.	1	
<i>b</i> Corn.	2		140. McNeal, A. R., Old Fields. Corn.	2	
104. Jenkins, Jeff, Green Botom.			141. McNeal, Geo., Academy.		
<i>a</i> Wheat.	1		<i>a</i> Wheat.	1	
<i>b</i> Corn.	2		<i>b</i> Corn.	3	
<i>c</i> Oats.	3		<i>c</i> Oats.	2	
105. Johnson, C. E., Union. Corn.	2				

UNITED STATES.

142. McNeal, Jas., Academy.		175. Seferent, John, Buffalo.	
a Wheat.	1	a Wheat.	1
b Corn.	2	b Corn.	2
c Buckwheat.	7	176. Seibert, C. J., Martinsburg.	
143. McWreath, W. C., Potomac.		a Wheat.	1
a Wheat.	1	b Oats.	3
b Oats.	3	177. Shanklin, J. P., Hunter's Springs.	
144. Melen, J. G., Zenith. Buckwheat.	7	Wheat.	1
145. Miller, Geo. W., Snyder's Mills.		178. Shepherd, Wm. L., Martinsburg.	
Corn.	1	Rye.	5
146. Miller, Thomas, Zenith. Buck-		179. Shoemaker, Jas., Love. Corn.	2
wheat.	7	180. Skinner, D. W., Pliny.	
147. Miller, Unah, Shepherdstown.		a Wheat.	1
a Wheat.	1	b Corn.	2
b Corn.	2	181. Skinner, G. E., Pliny. Corn.	2
148. Moore, C., Wayne C. H. Wheat.	1	182. Small, J. B., Martinsburg.	
149. Moore, Elijah, W. Alexander. Corn.	2	a Wheat.	1
150. Moore, Geo., Wayne C. H. Oats.	3	b Corn.	2
151. Moore, Wm., West Alexander.		183. Small, John D., Martinsburg. Corn.	2
Wheat.	1	184. Small, M. V., Martinsburg. Wheat.	1
152. Morgan, Capt. J. B., Grimm's Land-		185. Small, W. H., Martinsburg. Bar-	
ing. Wheat.	1	ley.	4
153. Morgan, John, Poca. Wheat.	1	186. Smith, C. E., Shannon. Oats.	3
154. Morgan, Henry C., West Liberty.		187. Smith, H. C., West Liberty.	
Wheat.	1	Wheat.	1
155. Morgan, Wm., Grimm's Landing.		188. Smith, J. S., Shannon. Wheat.	1
a Wheat.	1	189. Snyder, D. W., Falling Water.	
b Corn.	2	Wheat.	1
156. Morris, Jas. M., Winfield.		190. Sperow, C. R., Martinsburg.	
a Wheat.	1	a Wheat.	1
b Corn.	2	b Corn.	2
157. Morris, J. W., Midway.		191. Sperow, Benj. F., Martinsburg.	
a Wheat.	1	Wheat.	1
b Corn.	2	192. Sperow, Geo. O., Martinsburg.	
158. Musgrave, Asa., Maggie.		a Wheat.	1
a Wheat.	1	b Corn.	2
b Rye.	5	193. Sperow, George H., Spring Mills.	
159. Nash, Robt., Buffalo. Corn.		Wheat.	1
160. Nazum, Scott, Potomac. Oats.	3	194. Sperow, George R., Martinsburg	
161. Nickell, C. C. & T. A., Nickells.		Wheat.	1
Rye.	5	195. Stalder, W. F., Pliny. Wheat.	1
162. Noffinger, Ed., Red House Shoals.		196. Staton, S. C., Red House Shoals.	
Wheat.	1	Wheat.	1
163. Noll, Geo. M., Martinsburg. Wheat.	1	197. Staton, Simon, Red House Shoals.	
164. Novelty Mill Co., Parkersburg.		Corn.	2
Flour.	11	198. Stordis, John, Griffith. Oats.	3
165. Packitt Bros., Charlestown. Wheat.	1	199. Sydenstock, J. M., Lewisburg.	
166. Park, Geo., Ravenswood.		Wheat.	1
a Wheat.	1	200. Tabler, J. N., Green Hill. Wheat.	1
b Corn.	2	201. Taylor, Milton, West Liberty.	
167. Rader, S. B., Renicks Valley.		Wheat.	1
a Wheat.	1	202. Thatcher, Joseph B., Martinsburg.	
b Corn.	2	Wheat.	1
c Oats.	3	203. Thacher, J. N., Martinsburg. Wheat.	1
168. Renick, J. H. & H. E., Falling Springs.		Wheat.	1
a Wheat.	1	204. Thomas, J. B., West. Alexander.	
b Corn.	2	Buckwheat.	7
c Buckwheat.	7	205. Thomas, Jas. R., Hunter's Springs.	
169. Riffle, Wm., Flat Rock. Wheat.	1	Oats.	3
170. Roberts, Wm., Muse's Bottom.		206. Thompson, Capt. J. K., Raymond	
a Wheat.	1	City. Wheat.	1
b Corn.	2	207. Tomlinson, D., Pickaway.	
171. Rowan, J. M., Union.		a Wheat.	1
a Wheat.	1	b Cloverseed.	9
b Corn.	2	208. Tyree, W. F., Frankford. Wheat.	1
c Oats.	3	209. Waite, John P., Parkersburg.	
172. Sayears, E., Jefferson. Wheat.	1	a Corn.	2
173. Schultz, E. B., Hickory. Wheat.	1	b Buckwheat.	7
174. Sebrell, J. L., Grimm's Landing.		210. Walker, C. W., Indian Mills.	
a Wheat.		a Corn.	2
b Oats.	3	b Oats.	3
		c Buckwheat.	7

DEPARTMENT A.—AGRICULTURE.

211. Waugh, Wm., Bigstem.		231. Dunn, James P., Peterstown. To-	
<i>a</i> Wheat.	1	bacco.	48
<i>b</i> Corn.	2	232. Elexander, Henry, Frazier's Bottom.	
212. Way, Hamilton, Clinton. Wheat.	1	Tobacco.	48
213. Wells, R. M., Buffalo. Corn.	2	233. Ellison, T. A., Frost Hill. Tobacco.	48
214. Westenhaver Daniel, Martinsburg.		bacco.	48
Corn.	2	234. Epperly, Preston, Fayetteville. To-	
215. Westenhaver, David, Middleway.		bacco.	48
Wheat.	1	235. Gentry, T. J., Fayetteville. Tobacco.	48
216. Williams, Jas., Willow Grove. Oats.	3	236. Johnson, V. C., Frazier's Bottom.	
217. Williamson, Jas., Willow Grove.		Tobacco.	48
<i>a</i> Wheat.	1	237. Mandiville, J. H., Indian Mills. To-	
<i>b</i> Corn.	2	bacco.	48
218. Wilson, J. B., Wheeling.		238. McCallister, Maj. J., Hickory. To-	
<i>a</i> Wheat.	1	bacco.	48
<i>b</i> Oats.	3	239. Millard, W. H., Fayetteville. To-	
219. Wilson, J. M., Short Creek.		bacco.	48
<i>a</i> Corn.	2	240. Nash, Robt. B., Buffalo. Tobacco.	48
<i>b</i> Oats.	3	241. Nash, M. C., Buffalo. Tobacco.	48
GROUP 5.		242. Perry, C. W., Fayetteville. Tobacco.	48
220. Forney, C. C., Bethany. Navy beans.	32	243. Perry, R. S., Fayetteville. Tobacco.	48
221. Gordon, A. W., Blennerhassett Is-		244. Poteet, J. H., Oak Hill. Tobacco.	48
land. Beans.	5	245. Roherson, S. H., Peterstown. To-	
222. Miller, Unah, Shepherdstown. Navy		bacco.	48
beans.	32	246. Shank, Jas. R., Buffalo. Tobacco.	48
GROUP 8.		247. Shank, Lewis, McGill. Tobacco.	48
223. Adams, John D., Bigsteen. Tobacco.	48	248. Smith, James, Pliny. Tobacco.	48
224. Barnett Bros., Port Rock. Tobacco.	48	249. Stewart, C. J., Flat Rock. Tobacco.	48
225. Brown, J. M., Linside. Tobacco.	48	250. Stewart, J. H., Raymond City. To-	
226. Brown, Reuben, Linside. Tobacco.	48	bacco.	48
227. Caldwell, S. W., Pt. Pleasant. To-		251. Walker, C. W., Indian Mills. To-	
bacco.	48	bacco.	48
228. Chamber, A. J., Mercer Salt Works.			
Tobacco.	48		
229. Cooper, E. W., Oak Hill. Tobacco.	48		
230. Corgill, Hon. G. W., Winfield. To-			
bacco.	48		

WISCONSIN.

GROUP 1.		17. Bacon, W. C., Bristol. Wheat.	1
1. Acker, Wm., Juneau. Wheat.	1	18. Bailey, W. J., Lancaster.	
2. Agneburg, Nels, Whitehall. Buck-		<i>a</i> Wheat.	1
wheat.	7	<i>b</i> Corn.	2
3. Ahlers, N., Grafton. Wheat.	1	19. Barkhausen, Aug., Thiersville.	
4. Albert, Henry W., Oconomowoc. Rye.	5	<i>a</i> Wheat.	1
5. Allen, J. W., Ripon. Wheat.	1	<i>b</i> Rye.	5
6. Alves, F., Chilton. Wheat.	1	20. Barkolz, Christ., Lake Mills. Corn.	2
7. Ames, F. A., Clinton Junction. Pop-		21. Barney John E., Soldiers' Grove.	
corn.	2	Corn.	2
8. Anacker, Bernard, Portage. Wheat.	1	22. Barnhart, A., Milton. Timothy seed.	8
9. Anderson, H. C., Albion. Oats.	3	23. Barton, Sylvester, Waupaca. Rye.	5
10. Anderson, Mat, Klevenville. Clover		24. Batz, G. A., Sun Prairie. Clover seed.	9
seed.	8	25. Baumeifind, Jacob, Granville Centre.	
11. Andrews, John, Alma Centre. Wheat.	1	Wheat.	1
12. Angell, C. E., Oshkosh.		26. Beach, John, Buena Vista. Rye.	5
<i>a</i> Wheat.	1	27. Beals, O., Omro.	
<i>b</i> Oats.	3	<i>a</i> Corn.	2
<i>c</i> Barley.	4	<i>b</i> Rye.	5
13. Angell, C. E., Oshkosh. Timothy seed.	8	28. Beaver, M. G., Sun Prairie. Buck-	
14. Apple, Adam, North Cape.		wheat.	7
<i>a</i> Wheat.	1	29. Behring, Hilman, Schleisingerville.	
<i>b</i> Barley.	4	Clover seed.	9
15. Askewitz, Alex., Merrill. Rye.	5	30. Beine, Catherine, Schleisingerville.	
16. Baatz, Fred, Plymouth. Corn.	2	Oats.	3

UNITED STATES.

31. Bemis, A. D., Plymouth.		78. Cocking, Mrs. Joseph, Mineral Point.	
<i>a</i> Wheat.	1	Corn.	2
<i>b</i> Buckwheat.	7	79. Cole, H. W., Waterloo.	
32. Bender, John, Ocononowoc.		<i>a</i> Wheat.	1
<i>a</i> Wheat.	1	<i>b</i> Corn.	2
<i>b</i> Oats.	3	80. Collett, James, Maiden Rock. Wheat.	1
33. Beoming, Geo., Fond du Lac. Oats.	3	81. Collins, S. M., Springfield. Millet	
34. Berry, Theron, Fond du Lac. Corn.	2	seed.	8
35. Biever, M. G., Sun Prairie. Oats.	3	82. Collway, John, Cedarburg. Barley.	4
36. Billings, C. G., Downsville. Clover		83. Conger, Eugene, Greenbush. Timothy	
seed.	9	seed.	8
37. Binning, Geo., Fond du Lac. Barley.	4	84. Coon, B. F., Juneau. Corn.	2
38. Blaeur, E., Stokes. Millet seed.	8	85. Crandall, Lorenzo, Hudson. Timothy	
39. Blair, Moses, Centralia. Oats.	3	seed.	8
40. Blake, Louis, Appleton. Barley.	4	86. Culbertson, John, Greenville. Wheat.	1
41. Blanding, Wm. M., St. Croix Falls.		87. Cussik, Thomas, Oregon.	
Corn.	2	<i>a</i> Corn.	2
42. Bleser, Adam, Jr., Manitowoc. Wheat.	1	<i>b</i> Timothy seed.	8
43. Bloch, Ch., Gillet. Wheat.	1	88. Dach, Jacob, Liberty Pole.	
44. Blumer, Adam, Monroe. Barley.	4	<i>a</i> Corn.	2
45. Bohman, O. O., Stockholm. Barley.	4	<i>b</i> Oats.	3
46. Boll, Mrs. Anna, Chilton. Clover seed.	9	89. Dahl, John, Luxembourg. Barley.	4
47. Boon, John A., Becker. Popcorn.	2	90. Dahms, Chas., Shawano. Wheat.	1
48. Bowle, E. K., Monroe. Popcorn.	2	91. Daily, Ed., Hudson. Corn.	2
49. Botton, D. D., Bristol. Buckwheat.	7	92. Daily, Jacob, Hudson. Corn.	2
50. Brackett, Myron, Cataract. Oats.	3	93. Dalton, John, Mauston. Clover seed.	9
51. Britton, H., Sparta. Corn.	2	94. Dartz, Fred, Plymouth. Wheat.	1
52. Brown, Geo., Sussex.		95. Daul, John, Luxembourg. Rye.	5
<i>a</i> Wheat.	1	96. Davis, Rees D., Randolph. Wheat.	1
<i>b</i> Barley.	4	97. Davis, Thos., Oshkosh.	
53. Brown, Geo. W., Mineral Point. Mil-		<i>a</i> Wheat.	1
let seed.	8	<i>b</i> Buckwheat.	7
54. Brown, Mrs., Mauston. Oats.	3	<i>c</i> Seeds.	8
55. Brown, Peter, Centralia. Clover seed.	9	98. Day, Edward, Hudson. Wheat.	1
56. Brunner, W. W., Sheridan. Wheat.	1	99. Dayton, Andrew, Sparta. Buck-	
57. Bryson, James, Darlington. Popcorn.	2	wheat.	7
58. Buch, Gottlieb, Cedarburg. Wheat.	1	100. Deaver, J. N., Viroqua. Buckwheat.	7
59. Bump, Chas., Peshtigo. Buckwheat.	7	101. Deits, C. C., Minnesota Junction.	
60. Bunker, Nicholas, Luxembourg.		<i>a</i> Corn.	2
Wheat.	1	<i>b</i> Buckwheat.	7
61. Bunnell, B., Boydtown. Millet seed.	8	102. Demerit, J., Aztalan. Corn.	2
62. Burge, G. G., Rube. Rye.	5	103. Densmore, Joseph, Blair. Corn.	2
63. Buron, Herman, Schleisingserville.		104. Devoe, A. S., Shell Lake. Clover	
Buckwheat.	7	seed.	9
64. Butt, C. M., Viroqua. Wheat.	1	105. Deys, Ezra, Westfield. Red-top seed.	8
65. Callon, Matt, Wausau. Oats.	3	106. Douglass, M., Melrose. Rye.	5
66. Calvary Station.		107. Duenow, Carl, Chippewa Falls.	
<i>a</i> Wheat.	1	Wheat.	1
<i>b</i> Corn.	2	108. Dunn, P. E., Darrow. Wheat.	1
<i>c</i> Oats.	3	109. Dunst, Frank, Seymour. Barley.	4
67. Campbell, Wm., Gillingham. Corn.	2	110. Eberhardt, E., Manitowoc. Wheat.	1
68. Cane, Geo., Janesville. Clover seed.	9	111. Eckert, John, Thiensville. Wheat.	1
69. Cans, J., Lancaster.		112. Edwards, N. J., Hancock. Oats.	3
<i>a</i> Wheat.	1	113. Eissner, Ferdinand, Schleisinger-	
<i>b</i> Rye.	5	ville.	
70. Cashman, M., Hudson.		<i>a</i> Wheat.	1
<i>a</i> Wheat.	1	<i>b</i> Barley.	4
<i>b</i> Oats.	3	114. Eldowney, Wm. M., West Salem.	
71. Cate, Henry, Stockton. Oats.	3	Corn.	2
72. Chadwick, F. G., Mauston. Wheat.	1	115. Ellepson, Chris., Viroqua. Oats.	3
73. Cheeney, R., Neenah. Corn.	2	116. Emerson, S., Blair. Wheat.	1
74. Cheeney, S. S., Prof., State Univer-		117. Emerton, A. J., Portage. Corn.	2
sity, Madison.		118. Emmerton, Thos., Cook's Valley.	
<i>a</i> Grasses.	8	Oats.	3
<i>b</i> Forage plants.	9	119. Essmann, Theodore, Waterford.	
75. Cheesbro, A. J., Eau Claire. Pop-		Oats.	3
corn.	2	120. Ewing, Arthur B., Sylvan.	
76. Christiansen, S., Scandinavia.		<i>a</i> Wheat.	1
<i>a</i> Oats.	3	<i>b</i> Corn.	2
<i>b</i> Clover seed.	9	121. Fadness, H. J., Deerfield. Wheat.	1
77. Christians, Wm., Johnson's Creek.		122. Fadness, H. O., Cambridge. Wheat.	1
<i>a</i> Wheat.	1		1
<i>b</i> Rye.	5		

DEPARTMENT A.—AGRICULTURE.

123. Fagan, John M., Prairie du Chien. Corn.	2	168. Hall, J. S., North Freedom. a Wheat.	1
124. Farnham, E., Stephenville. Corn.	2	b Rye.	5
125. Fear, E. J., Augusta. Oats.	3	169. Halpin, Thos., Cedarburg. Timothy seed.	8
126. Fehrmann, Aug., Waterloo. a Wheat.	1	170. Hamm, Henry, Centralia. Rye.	5
b Barley.	4	171. Hangrud, Alsak O., Rio. Corn.	2
c Rye.	5	172. Hankins, I., Blair. Oats.	3
d Buckwheat.	7	173. Hans, John, Jefferson. a Wheat.	1
127. Fetting, Adolph, Buffalo City. Rye.	5	b Barley.	4
128. Fields, Wm., Prairie du Chien. Corn.	2	174. Hanson, Martin, Blair. Wheat.	1
129. Fisher, Fred. C., Sheridan. Wheat.	1	175. Hanson, Sievert, Westby. Timothy seed.	8
130. Fitzsimmons, Samuel, Mineral Point. a Corn.	2	176. Hanz, Geo., Fort Atkinson. Clover seed.	9
b Clover seed.	9	177. Hardacker, H., Hortonville. Oats.	3
131. Flemming, B. H., Shell Lake. Oats.	3	178. Harden, C., Brodhead. Corn.	2
132. Flemming Bros., Wilmot. Barley.	4	179. Harder, Jos., Plymouth. Wheat.	1
133. Fletcher, Frank, Buena Vista. Corn.	2	180. Harland, W., Duplainville. a Wheat.	1
134. Flucks, Joseph, Prairie du Chien. a Corn.	2	b Oats.	3
b Buckwheat.	7	c Millet seed.	8
c Clover seed.	9	181. Harness, Geo., Neenah. Oats.	3
135. Fountain, Thomas, Tibbets. Corn and popcorn.	2	182. Harris, J. E., Springville. Corn.	2
136. Fralich, Frank, Summer. Corn.	2	183. Hass, Fred, Templeton. Corn.	2
137. Freihuba, T., Okauches. Barley.	4	184. Hass, Gottlieb, Mauston. Wheat.	1
138. Fritz, C., White Creek. a Wheat.	1	185. Hatch, Fred L., Caryville. Corn.	2
b Buckwheat.	7	186. Hauer, Chas., Mauston. Millet seed.	8
139. Fuller, Albert, Mauston. Corn.	2	187. Hauptert, Susanna, Neosho. Rye.	5
140. Fussenich, Gerhardt, Forestville a Wheat.	1	188. Hawthorne, W., Clarno. Corn.	2
b Rye.	5	189. Hayward, F. E., Hancock. a Corn.	2
141. Gahn, Mrs. Nora, White Creek. Wheat.	1	b Oats.	3
142. Ganske, A., Beaver Dam. Oats.	3	190. Heath, Oliver R., Amherst. Oats.	3
143. Gardner, W. F., Fulton. Pop corn.	2	191. Heinke, Christ, Greenbush. Barley.	4
144. Gates, John, Oakland. Timothy seed.	8	192. Hein, Nic, Chilton. Clover seed.	9
145. Gates, W., West Salem. Corn.	2	193. Hendhorn, Wm., Sylvan. Corn.	2
146. Gerold, Henry C., Weyauwaga. Wheat.	1	194. Hendricks, Val., Merrill. Oats.	3
147. Getgen, N., Manitowoc. Millet seed.	8	195. Henes, W. H., York. Wheat.	1
148. Getz, Jos., Maplewood. Wheat.	1	196. Hennig, John, Princeton. Corn.	2
149. Gilbertson, I. W., Irving. Wheat.	1	197. Henry, Geo. E., Jefferson. a Wheat.	1
150. Gilbert, Warren, Rio. Clover seed.	9	b Timothy seed.	8
151. Goldammer, Julius, Neillsville. Wheat.	1	198. Herman, A., Cream. Oats.	3
152. Gollneck, Ernest, Cedarburg. a Wheat.	1	199. Higgins, Wm., Jonesdale. Wheat.	1
b Barley.	4	200. Hind, John, Indian Ford. Clover seed.	9
153. Graf, Peter, St. Lawrence. Clover seed.	9	201. Hinz, Herman, Oconto. Wheat.	1
154. Grant, A. R., Stephenville. Corn.	2	202. Hoffman, J. G., Helenville. Wheat.	1
155. Graser, Adam, Waukesha. Oats.	3	203. Hoffman, M. L., Bassett. Oats.	3
156. Green, L., Reedstown. Buckwheat.	7	204. Holden, Milton, Pepin. Wheat.	1
157. Griffith, D. J., Dodgeville. Wheat.	1	205. Holle, M., Sparta. Clover seed.	9
158. Groth, Ferdinand, Cedarburg. Rye.	5	206. Home, Robert, Milton. Corn.	2
159. Grubb, C. H., Baraboo. a Wheat.	1	207. Horn, Matt, Jericho. Clover seed.	9
b Corn.	2	208. Hoyt, W. E., Rochester. Wheat.	1
160. Gurnee, B. M., Stephenville. Rye.	5	209. Hoover, H. H., Stoughton. Corn.	2
161. Haber, Jacob, Neenah. Wheat.	1	210. Hooverson, John C., Soldiers' Grove. Corn.	2
162. Hackett, Joseph, Baraboo. Clover seed.	9	211. Hopkins, James, Blair. Rye.	5
163. Haight, John, Johnstown. Clover seed.	9	212. Huebner, W. J., Manitowoc. Buck- wheat.	7
164. Hake, G. W., Jefferson. Corn.	2	213. Hulbert, C., Burns. Rye.	5
165. Hake, John F., Jefferson. Buck- wheat.	7	214. Hurd, John, Indian Ford. Timothy seed.	8
166. Halbert, S. W., Augusta. Corn.	2	215. Jacobson, Theodore, Burlington. Corn.	2
167. Hall, S. D., & Son, Johnstown. Oats.	3	216. Jeffrey, H. T., Colgate. Barley.	4
		217. Jeffrey, Wm., Colgate. Wheat.	1
		218. Joch, Chas., Plymouth. Wheat.	1
		219. John, F. W., Gillett. Oats.	3

UNITED STATES.

220. Johnson, James, Menominee. Millet seed.	8	263. Lenike, August, Freistadt. Rye.	5
221. Johnson, Henry, Oshkosh. Corn.	2	264. Leslie, John, Juneau. Wheat.	1
222. Johnson, Henry S., Eau Claire.		265. Lever, Wm., Mauston.	
<i>a</i> Rye.	5	<i>a</i> Wheat.	1
<i>b</i> Buckwheat.	7	<i>b</i> Clover seed.	9
223. Johnson, Lars, Adsit. Wheat.	1	266. Lewis, Bert, Greenville. Corn.	2
224. Johnson, W. N., Oxford.		267. Lienan, John, Cooksville. Corn.	2
<i>a</i> Popcorn.	2	268. Ligh Bros., Kansasville. Barley.	4
<i>b</i> Oats.	3	269. Link, F. A., Alma Centre. Barley.	4
<i>c</i> Buckwheat.	7	270. Lipke, Aug., Jefferson. Wheat.	1
225. Jones, F. R., Hancock.		271. Little, James, Janesville. Corn.	2
<i>a</i> Corn.	2	272. Lockhart, J. H., Maplewood. Clover seed.	9
<i>b</i> Oats.	3	273. Loock, Fred, Watertown.	
226. Jones, S. B., Hustisford. Oats.	3	<i>a</i> Wheat.	1
227. Jordalen, L. C., Clarkson. Barley.	4	<i>b</i> Barley.	4
228. Jost, David Alma.		274. Loomis, J. C., Alma.	
<i>a</i> Wheat.	1	<i>a</i> Corn.	2
<i>b</i> Oats.	3	<i>b</i> Barley.	4
229. Kahler, Chas., Prairie du Chien. Wheat.	1	<i>c</i> Rye.	5
230. Karnopp, Wm., Ellisville. Clover seed.	9	<i>d</i> Buckwheat.	7
231. Kelling, August, Menominee. Popcorn.	2	<i>e</i> Timothy seed.	8
232. Kelner, Anton, Irving. Corn.	2	<i>f</i> Clover seed.	9
233. Kemerer, Fred, Little Black.		275. Long, C., West Bend.	
<i>a</i> Wheat.	1	<i>a</i> Wheat.	1
<i>b</i> Barley.	4	<i>b</i> Barley.	4
234. Kennedy, Scott, Rio.		<i>c</i> Clover seed.	9
<i>a</i> Wheat.	1	276. Lutz, Andrew, Melrose. Corn.	2
<i>b</i> Popcorn.	2	277. Machin, Joseph, Forestville.	
235. Kettlison, Levi, Stoughton. Wheat.	1	<i>a</i> Corn.	2
236. Kiel, John, Plymouth. Rye.	5	<i>b</i> Barley.	4
237. Kingman, F. G., Bristol. Buckwheat.	7	278. Madden, John, Mauston.	
238. Klein, Geo., Fort Atkinson. Barley.	4	<i>a</i> Wheat.	1
239. Klumb, John, West Bend. Rye.	5	<i>b</i> Timothy seed.	8
240. Kniep, Henry, Springfield. Wheat.	1	279. Maine, Gil, Stephenville. Corn.	2
241. Koffman, M. S., Bassett. Oats.	3	280. Mallinson, David, Randolph. Wheat.	1
242. Kohlweg, F., Grafton.		281. Maltby, W. Ray, Portage. Corn.	2
<i>a</i> Wheat.	1	282. Mangold, Louis, Sherwood. Buckwheat.	7
<i>b</i> Barley.	4	283. Markham, Arthur A., Independence.	
243. Kromer, Wm., Johnsonville. Clover seed.	9	<i>a</i> Corn.	2
244. Krueger, F. J., Juneau. Timothy seed.	8	<i>b</i> Oats.	3
245. Krueger, Robert, Juneau.		284. Marsh, Frank, Jefferson. Wheat.	1
<i>a</i> Wheat.	1	285. Martin, John G., Mineral Point.	
<i>b</i> Barley.	4	<i>a</i> Corn.	2
246. Kuehn, Jacob, Alma. Wheat.	1	<i>b</i> Oats.	3
247. Kuepel, Franz, Brown Deer. Clover.	9	<i>c</i> Buckwheat.	7
248. Kuhefuss, J. C., Cedarburg. Barley.	4	286. Martin, Wm., Gillingham. Corn.	2
249. Kull, Andrew, Geneva Lake.		287. Mather, H. M., Prairie du Sac. Timothy seed.	8
<i>a</i> Corn.	2	288. Mattes, Chas., Jefferson. Oats.	3
<i>b</i> Rye.	5	289. Maud, John, Arcadia. Timothy seed.	8
250. Kurtz, Jacob, Fort Atkinson. Buckwheat.	7	290. May, Reuben, Viroqua. Clover seed.	9
251. Lamb Bros., Johnson. Barley.	4	291. McAdams, S., Barron. Oats.	3
252. Lamke, Ernest, Merrill. Wheat.	1	292. McClintock, Wm. M., West Salem. Corn.	2
253. Langemak, P. J., New Holstein. Wheat.	1	293. McConnell, Wm. M., Ripon. Timothy seed.	8
254. Lanicca, Paul, Alma. Corn.	2	294. McCredie, Robert, Portage.	
255. Larson, M., Stockholm. Wheat.	1	<i>a</i> Wheat.	1
256. Lauer, Peter, Woodville. Grass seed.	8	<i>b</i> Corn.	2
257. Lawber, Adam, Fond du Lac. Barley.	4	295. McCumber, Chas., Burlington. Popcorn.	2
258. Law, John, Schleisingerville. Clover seed.	9	296. McEvoy, Will, Mauston. Wheat.	1
259. Lee, T. F., Granton. Corn.	2	297. McGill, D. D., Chippewa City. Rye.	5
260. Leen, Knut C., Blair. Clover seed.	9	298. McIntyre, John, Mauston. Oats.	3
261. Lemke, August, Freistadt. Wheat.	1	299. McCann, B., Fort Atkinson. Corn.	2
262. Leonard, P., & Son, Mineral Point. Popcorn.	2	300. McLean, John, St. Croix. Corn.	2
		301. McLees, Joseph, Springville. Corn.	2
		302. McLees, U. O., Viroqua. Corn.	2
		303. McMillen, Ray, Douglas Centre. Corn.	2

DEPARTMENT A.—AGRICULTURE.

304. McNeil, Hector, Schleisingerville. Timothy seed. 8	353. Pansie, H., Princeton. a Wheat. 1 b Corn. 2 c Buckwheat. 7
305. McNutt, E. W., Oxford. Corn. 2	354. Parcher, R. E., Wausau. a Wheat. 1 b Rye. 5 c Buckwheat. 7 d Timothy seed. 8
306. McNutt, F. H., Oxford. Wheat. 1	355. Patrick, C. H., Fond du Lac. Corn. 2
307. McWeathy, A. P., Cook's Valley. Corn. 2	356. Paulsen, Ernest, New Holstein. Wheat. 1
308. Meier, Matt, St. John. Clover seed. 9	357. Paulsen, Herman, Graville. a Wheat. 1 b Corn. 2
309. Merran, Geo. B., Darlington. Wheat. 1	358. Pease, Frank, Shell Lake. Grass. 8
310. Merrill, A. W., Alma Centre. a Wheat. 1 b Corn. 2	359. Peat, Michael, Luxembourg. Peas. 32
311. Merrill, Frank S., Princeton. Corn. 2	360. Pells, J., Coloma Station. Rye. 5
312. Merriman, R. D., Fort Atkinson. Corn. 2	361. Pelton, Geo., & Sons, Reedsburg. Corn. 2
313. Messinger, F. O., New London. Wheat. 1	362. Penny, J. R., Arcadia. Corn. 2
314. Meyer, George, Plymouth. Barley. 4	363. Peot, Nicholas, Luxembourg. Rye. 5
315. Millard, Lewis, Sparta. Corn. 2	364. Perrot, Louis, Greenville. Corn. 2
316. Miller, Henry, Dotyville. Corn. 2	365. Peschau, Henry, Sturgeon Bay. Tim- othy seed. 8
317. Miller, Henry, West Salem. Oats. 3	366. Peterson, Mads., Green Bay. Oats. 3
318. Miller, J., Melrose. Corn. 2	367. Peul, Chas., Cedarburg. a Oats. 3 b Barley. 4
319. Miller, Mike, Jefferson. Wheat. 1	368. Peul, John, Schleisingerville. Wheat. 1
320. Mills, Gabe, Linden. Corn. 2	369. Pfiel, Christopher, Granville. Wheat. 1
321. Minahan, John, Clinton. Wheat. 1	370. Pike, H., Packwaukee. Clover seed. 9
322. Moldenbauer, H., Lebanon. Wheat. 1	371. Pinkerton, R. R., Waupaca. Wheat. 1
323. Morrison, William, Leeds Centre. Barley. 4	372. Place, Henry, Phestigo. Buckwheat. 7
324. Morse, F. O., Sparta. Corn. 2	373. Plinsk, Chas., Forestville. a Oats. 3 b Rye. 5
325. Muehl, Fred, Seymour. a Wheat. 1 b Rye. 5	374. Pomeroy, Orrin, Edgerton. Wheat. 1
326. Mullawaney, D., Mauston. Clover seed. 9	375. Porter, J. W., Oakland. a Wheat. 1 b Buckwheat. 7
327. Nashold Bros., Rio. Corn. 2	376. Preston, Geo., Ft. Atkinson. Wheat. 1
328. Nattke, Fred, Portage. Corn. 2	377. Price, Mrs. Julia, Black River Falls. a Corn. 2 b Oats. 3
329. Nelson, Paul, Peterson. Wheat. 1	378. Prosser, J. K., Antigo. Oats. 3
330. Nelson, Peter, Waupaca. Wheat. 1	379. Puerner, O. E., Jefferson. a Wheat. 1 b Barley. 4
331. Newton, S. D. D., a Oats. 3 b Barley. 4	380. Puhl, Frank Dobber, Cedarburg. Timothy seed. 8
332. Nichols, George, Stoughton. Rye. 5	381. Quandt, Wm. C., Woodland. a Wheat. 1 b Barley. 4
333. Nickel, Daniel, Waupaca. Corn. 2	382. Randall, C. F., Janesville. Blue- grass seed. 8
334. Noble, B., Monroe. Wheat. 1	383. Rank, Geo., Schleisingerville. Oats. 3
335. Noble, C., Sparta. Wheat. 1	384. Rasch, J. & C., Wilmot. Corn. 2
336. Nordley, J. H., Prairie Farm. Wheat. 1	385. Ravold, George, Roberts. Corn. 2
337. Northy, Richard, Fort Atkinson. Corn. 2	386. Rauh, Geo., Schleisingerville. a Wheat. 1 b Barley. 4
338. Ode, Wm., Portage. Wheat. 1	387. Ray, W. C., Richland Centre. a Wheat. 1 b Oats. 3
339. Oestreich, F., Juneau. Barley. 4	388. Reeve, Howard, Ironton. Wheat. 1
340. Ogden, Marion E., Sylvan. Wheat. 1	389. Reynolds, Frank, Cedarburg. Wheat. 1
341. Olds, O. P. H., Hudson. Wheat. 1	390. Reul, Andrew, Helenville. Corn. 2
342. Olp, John, Springfield. Buckwheat. 7	391. Rhead, Turman R., Hixton. Wheat. 1
343. Olsen, Martin J., Viroqua. Wheat. 1	
344. Orton, T. F., Lancaster. a Timothy seed. 8 b Clover seed. 9	
345. Osceola Mill Company, Osceola Mills. Wheat. 1	
346. Osmond, A. G., Milton. Clover seed. 9	
347. Ottery, E. J., Fond du Lac. a Corn. 2 b Oats. 3	
348. Otto, Wm., Montello. Rye. 5	
349. Overson, Swain, Westby. Barley. 4	
350. Owen, S. B., Dartford. a Corn. 2 b Wheat. 1	
351. Pagle, Henry, Horicon. a Wheat. 1 b Barley. 4	
352. Palmer, J. C., Baraboo. Corn. 2	

UNITED STATES.

392. Rheingans, Philip, Tilden.		438. Shaver, James Peshtigo.	
<i>a</i> Wheat.	1	<i>a</i> Corn.	2
<i>b</i> Corn.	2	<i>b</i> Oats.	3
393. Richards, Frances, Sun Prairie. Corn.	2	439. Sherburne, W. R., Rusk. Clover seed.	9
394. Risk, Wm., Easton.		440. Shoff, J. M., Easton. Wheat.	1
<i>a</i> Rye.	5	441. Shulfelt, John, Oconto. Buckwheat.	7
<i>b</i> Timothy seed.	8	442. Sidney, Porch, River Falls. Oats.	3
395. Roberts, F. W., Woodworth. Corn.	2	443. Simen, Jacob, Calvary Station.	
396. Robinson, James, Portage.		Wheat.	1
<i>a</i> Barley.	4	444. Sisson, Frank, Mindoro. Corn.	2
<i>b</i> Buckwheat.	7	445. Skinner Bros., Merritt's Landing.	
397. Rodger, Alex., Endeavor. Corn.	2	Corn.	2
398. Rodka, Chas., Good Hope. Barley.	4	446. Slis, Anton, Forestville. Oats.	3
399. Roe, Andrew S., Waupaca. Rye.	5	447. Smith, Adam, Melrose. Oats.	3
400. Roecker, Wm., Portage. Buckwheat.	7	448. Smith, J. F., Mauston.	
401. Rondorf, W., Summit.		<i>a</i> Wheat.	1
<i>a</i> Wheat.	1	<i>b</i> Buckwheat.	7
<i>b</i> Barley.	4	449. Snyder, Geo., Oconomowoc.	
402. Rozilla, Mrs. King W., Neillsville.		<i>a</i> Wheat.	1
Corn.	2	<i>b</i> Barley.	4
403. Rumpf, Daniel, Ableman. Wheat.	1	450. Spaulding, Ferris A., Oconomowoc.	
404. Rumpf, Peter, Ableman. Wheat.	1	Buckwheat.	7
405. Rusch, Wm., Merrill. Wheat.	1	451. Spaulding, Luther, River Falls. Rye.	5
406. Ryder, H. C., Hustisford. Barley.	4	452. Speiker, John, Burlington. Corn.	2
407. Sadt Miller, Joseph, Oshkosh. Wheat.	1	453. Spenseley, D. H., Clinton. Corn.	2
408. Sayre, David F., Fulton. Timothy seed.	8	454. Spenseley, James, Mineral Point.	
409. Scanlan, Luke, Lamberton. Barley.	4	Corn.	2
410. Schadel, Fred, Sun Prairie. Barley.	4	455. Spoon, John, Janesville. Red-top seed.	8
411. Scheen, Ferdinand, Cedarburg. Clover seed.	9	456. Spring, M. E., Baraboo. Corn.	2
412. Scherer, Matthias, Thiensville. Barley.	4	457. Stackman, P. O., North Freedom.	
413. Schleiter, F., Cedarburg. Barley.	4	Corn.	2
414. Schley, Geo., Waukesha.		458. Starandt, W. F., Burr Oak. Wheat.	1
<i>a</i> Wheat.	1	459. Stebbins, Fred, Melrose. Corn.	2
<i>b</i> Oats.	3	460. Steonitzky, Chas., Lynn. Timothy seed.	8
<i>c</i> Barley.	4	461. Stephenson, Moses, Mineral Point.	
415. Schmidt, Albert, Portage.		Clover seed.	9
<i>a</i> Corn.	2	462. Stephens, Wm., Bristol. Corn.	2
<i>b</i> Barley.	4	463. Stevens, Geo., Jefferson. Wheat.	1
416. Schmidt, Peter, Schleisingerville.		464. Stevens, Hiram, Oshkosh. Corn.	2
Red-top seed.	8	465. Stiles, C. D., Lake Mills. Rye.	5
417. Schmitz, John, Calvary Station.		466. Stoll, W. W., Burlington. Corn.	2
<i>a</i> Wheat.	1	467. Stowe, Geo., Ironton. Timothy seed.	8
<i>b</i> Barley.	4	468. Stonwell, A. F., Easton. Milletseed.	8
418. Schmitz, Nicholas, Eden. Corn.	2	469. Stowell, A. F., White Creek. Buckwheat.	7
419. Schneider, W., Waumandee. Wheat.	1	470. Straitman, A., West Salem. Wheat.	1
420. Schroeter, Gustav, Grafton. Barley.	4	471. Stratton, E. E., Burlington. Red-top seed.	8
421. Schubert, Anton, Cedarburg. Clover seed.	9	472. Strause, J. M., Sun Prairie. Grass seed.	8
422. Schuffelt, John, Oconto. Buckwheat.	7	473. Strauss, Henry, Thiensville. Corn.	2
423. Schwalen, Hale, Hudson. Oats.	3	474. Stumcenhorst, Anton, Gravesville.	
424. Schweinler, Chs., Jefferson. Corn.	2	Wheat.	1
425. Schweka, Fred, Grafton. Barley.	4	475. Suhr, Wm., Alma. Timothy seed.	8
426. Schwolon, R., Weyauwega.		476. Summers, J. W., Rochester. Wheat.	1
<i>a</i> Wheat.	1	477. Swallen, B., Hudson. Barley.	4
<i>b</i> Buckwheat.	7	478. Swartz, Peter M., Waukesha. Wheat.	1
427. Seamonson, Wm., Stoughton. Rye.	5	479. Swatscheno, Wm., Neenah	
428. Seeley, H. G., Maiden Rock. Wheat.	1	<i>a</i> Wheat.	1
429. Segerson, Hans, Rio. Corn.	2	<i>b</i> Corn.	2
430. Seiderman, Stokes. Clover seed.	9	480. Taylor, J. W., Barrow. Wheat.	1
431. Selle, A., Mequon.		481. Taylor, Wm., River Falls. Blue grass seed.	8
<i>a</i> Wheat.	1	482. Taylor, W. R., Cottage Grove. Corn.	2
<i>b</i> Rye.	5	483. Teele, Aron, Baraboo. Buckwheat.	7
<i>c</i> Clover seed.	9	484. Tepler, Robert, Neenah. Oats.	3
432. Seward, M. B., Soldiers' Grove. Corn.	2	485. Thayer, M. A., Sparta.	
433. Seymour, Merton, Reedsburg. Corn.	2	<i>a</i> Corn.	2
434. Shadel, Jacob, Sun Prairie. Wheat.	1	<i>b</i> Rye.	5
435. Shall, W., North Freedom. Wheat.	1	486. Thern, Frank, Antigo. Wheat.	1
436. Shane, Daniel, Burns. Wheat.	1		
437. Shattuck Bros., Sparta. Oats.	3		

DEPARTMENT A.—AGRICULTURE.

487.	Thibendeau, Simon, Luxembourg.	
	a Wheat.	5
	b Rye.	8
	c Millet seed.	3
488.	Thomas, Frank, Sun Prairie. Oats.	3
489.	Thomas, J. W., Chippewa Falls.	
	a Wheat.	1
	b Corn.	2
	c Timothy seed.	8
490.	Timm, Jos., Grand Rapids. Rye.	5
491.	Timm, Wm., Grand Rapids. Red-top seed.	8
492.	Tipler, I., Allenville. Wheat.	1
493.	Tipler, Robert, Neenah. Wheat.	1
494.	Trumpy, Fred, Clarno.	
	a Oats.	3
	b Buckwheat.	7
495.	Trutel, John, Aurora. Wheat.	1
496.	Tunmel, Louis, Oconomowoc. Barley.	4
497.	Udell, John, North Freedom. Corn.	2
498.	Uphome, Peter H., Soldiers' Grove.	
	a Wheat.	1
	b Corn.	2
499.	Upson, S. E., Pleasant Prairie. Clover seed.	9
500.	Veltus, J. B., De Pere. Wheat.	1
501.	Verhalen, Peter J., Burlington. Corn.	2
502.	Vickerman, Jackson, Milton.	
	a Wheat.	1
	b Barley.	4
	c Timothy seed.	8
503.	Vogel, August, North Greenfield.	
	a Wheat.	1
	b Barley.	4
504.	Wagner, Jacob, Oakland. Rye.	5
505.	Wagner, Ludwit, Lebanon. Wheat.	1
506.	Wagner, Philip, West Bend. Oats.	3
507.	Waise, Joe, Oconto. Rye.	5
508.	Waken T., Lancaster. Millet seed.	8
509.	Walker, Moses, Berlin. Wheat.	1
510.	Walke, W. V., Lancaster. Corn.	2
511.	Wallace, Geo., Fox Lake. Barley.	4
512.	Walrath, H., White Creek.	
	a Buckwheat.	7
	b Timothy seed.	8
513.	Walter, Ely, Neenah. Wheat.	1
514.	Walter, Michael, Amherst. Millet seed.	8
515.	Walther, John N., Helenville. Wheat.	1
516.	Warren, Gilbert, Rio. Timothy seed.	8
517.	Wason Robert, Waterville. Corn.	2
518.	Ward, C. E., Fort Atkinson. Corn.	2
519.	Ward, George, Bridgeport. Wheat.	1
520.	Weaver, Frank, Dartford. Buckwheat.	7
521.	Weber, Jacob, Merrill. Barley.	4
522.	Wedgewood, R. E., Shawno. Barley.	4
523.	Wegner, Wm., Plymouth.	
	a Wheat.	1
	b Corn.	2
524.	Weisensel, Caspar, Sun Prairie. Corn.	2
525.	Weisler, Geo., Ortonville. Corn.	2
526.	Welch, P. J., Mauston. Clover seed.	9
527.	Welcome, W. H., Hancock. Corn.	2
528.	Wellener, John, Centralia. Buckwheat.	7
529.	Wells, Caleb, Milton. Wheat.	1
530.	Wells, Frank, Milton. Popcorn.	2
530.	Wells, Joseph, Monroe. Corn.	2
531.	West, H. P., Fayetteville.	
	a Wheat.	1
	b Oats.	2
	c Barley.	4
	d Millet and red-top seed.	8
532.	Westing, J. B., Lancaster.	
	a Corn.	2
	b Buckwheat.	7
533.	Weston, Chas. S., Edmund. Wheat.	1
534.	West, Mark, Fayetteville.	
	a Wheat.	1
	b Oats.	3
	c Barley.	4
535.	Whitehead, David, Whitewater.	
	Grass seed.	8
536.	Whitehead, Frank, Whitewater.	
	Oats.	3
537.	White, S. T., Beaver Dam. Wheat.	1
538.	Whitmond, W. H., Centralia. Corn.	2
539.	Whittaker, Thos. F., Oconomowoc.	
	a Wheat.	1
	b Oats.	3
540.	Widman Bros., Fort Atkinson. Barley.	4
541.	Wiepking, Henry D., Cedarburg.	
	a Wheat.	1
	b Corn.	2
	c Barley.	4
	d Rye.	5
542.	Wiesen, Matthew, Scandinavia.	
	Barley.	4
543.	Willis, Z. C., Cook's Valley. Buckwheat.	7
544.	Wilson, Eliza T., Amy. Wheat.	1
545.	Wilson, W. E., Burlington. Clover seed.	9
546.	Wilson, William C., Burlington.	
	a Popcorn.	2
	b Timothy seed.	8
547.	Wittkopp, Carl, Plymouth.	
	a Wheat.	1
	b Barley.	4
548.	Wing, B. F., Whitehall. Corn.	2
549.	Winters, John J. F., Sparta. Corn.	2
550.	Winters, John, Sparta. Wheat.	1
551.	Wishart, Thos., De Pere.	
	a Wheat.	1
	b Oats.	3
552.	Woodruff, H. S., Janesville. Orchard grass.	8
553.	Woolenberg, Anna, Chilton. Clover seed.	9
554.	Works, O., Augusta. Barley.	4
555.	Young, A. W., Chippewa Falls. Corn.	2

GROUP 3.

556.	Cousins, L. P., New London. Honey.	26
557.	Green, C. H., Waukesha. Honey.	26
558.	Gross, Gustav, Milford. Honey.	26
559.	Hatch, C. A., Ithaca. Honey.	26
560.	Keyes, J. W., Chippewa Falls. Honey.	26
561.	Lotz, August, Cadott. Honey.	26
562.	McNay, Frank, Mauston. Honey and beeswax.	26
563.	McNay, Mr., Durand. Honey.	26
564.	McNown, J. W., Sinsinawa. Honey.	26
565.	Morgan, E. A., Chippewa Falls. Honey.	26
566.	Ochsner, J. J., Prairie du Sac. Honey and beeswax.	26
567.	Priest, E. C., Henrietta. Honey.	62

UNITED STATES.

568. Putnam, W. H., River Falls. Honey. 26
 569. Wilcox, Arthur, Chippewa Falls.
 Honey and beeswax. 26
 570. Wilcox, F., Mauston. Honey and
 beeswax. 26
 571. Vandereicke, Adolph, Lake Mills.
 Honey. 26

GROUP 5.

572. Adams, John, Kewanee. Lentils. 32
 573. Allen, Ethan, North Freedom. Beans. 26
 574. Aloes, F., Chilton. Peas. 32
 575. Anacker, Bernard, Portage. Beans. 32
 576. Anderson, A. E., Stockholm. Beans. 32
 577. Anderson, Gunder, Taylor. Beans. 32
 578. Arnold, Freeman, Hanover. Peas. 32
 579. Bailey, Aaron, Princeton. Beans. 32
 580. Bailey, W. J., Lancaster. Peas. 32
 581. Barkhausen, Aug., Thiensville. Peas.
 32
 582. Beals, O., Omro. Beans. 32
 583. Beilke, F. W., Wausau. Peas. 32
 584. Belky, Ed., Sparta. Beans. 32
 585. Benedick, A. J., Woodworth. Beans. 32
 586. Berz, Peter, Kewaunee. Lentils. 32
 587. Black, John, Kewanee. Lentils. 32
 588. Boyden, E., Mills Centre. Peas. 32
 589. Buch, Gottlieb, Cedarburg. Flax
 seed. 32
 590. Buswell, S. M., Amherst. Peas. 32
 591. Chittenden & Morse, Princeton.
 Beans and peas. 32
 592. Cleland, Samuel, Footville. Beans. 32
 593. Currier, A. W., River Falls. Beans. 32
 594. Darrow, Nathaniel, Reedsburg.
 Beans. 32
 595. Davis, P. M., Waupaca. Beans. 32
 596. Davis, Thos., Oshkosh. Beans. 32
 597. Day, Mr., Portage. Beans. 32
 598. Demerest, E. L., Waupaca. Beans. 32
 599. Dixon, Joshua, Kansasville. Peas. 32
 600. Dodds, W. J., Brookside. Peas. 32
 601. Dollyjack, J., Portage. Peas. 32
 602. Duenon, Carl, Chippewa Falls.
 Peas. 32
 603. Eberhart, August, Manitowoc. Peas.
 32
 604. Eberhardt, E., Manitowoc.
 a Beans. 32
 b Peas. 32
 605. Edwards, Henry, Grand Rapids.
 Beans. 32
 606. Enderby, Wm. R., Green Bay.
 Beans. 32
 607. Foster, L. J., Mauston. Beans. 32
 608. Frakle, Wm., Kewaunee. Peas. 32
 609. Garner, A. C., Chippewa Falls.
 Beans. 32
 610. Graf, Henry, Granville. Peas. 32
 611. Graf, John, Kewaunee. Peas. 32
 612. Grant Bros., Hudson. Beans and
 peas. 32
 613. Grant Bros., Hudson. Peas. 32
 614. Grape, John, Waukesha. Beans and
 peas. 32
 615. Greenlee, I. C., Sparta. Beans. 32
 616. Haberlee, Joseph, Sevastopol. Beans. 32
 617. Halpin, Thomas, Cedarburg. Flax
 seed. 95
 618. Hall, M., Chippewa Falls. Beans. 32
 619. Hamm, Frank, Centralia. Peas. 32
 620. Hamm, Henry, Centralia. Beans. 32
 621. Harland, W., Duplainville. Beans. 32
 622. Haus, John, Jefferson. Beans. 32
 623. Hemke, H., Sawyer. Lentils. 32
 624. Hephner, Nicholas M., Chilton.
 Beans. 32
 625. Holmes, Edward, Shopiere. Peas. 32
 626. Huebner, W. J., Manitowoc. Peas. 32
 627. Huepel, Fred, Brown Deer. Beans. 32
 628. Jackson, Robt., Oconto. Peas. 32
 629. Kelly, P., River Falls. Beans. 32
 630. Keogh, Edward, Forestville. Peas. 32
 631. Konkle, Barney, Richland Centre.
 Beans. 32
 632. Konop, Andrew, Stangelville. Beans. 32
 633. Krema, Wencle, Luxembourg. Peas. 32
 634. Langemach, P. J., New Holstein.
 Peas. 32
 635. Lawson, Louis, Mineral Point. Beans.
 32
 636. Lee, Alfus, Plymouth. Beans. 32
 637. Lippett, L., Baraboo. Beans. 32
 638. Little, James, Janesville. Beans. 32
 639. Loomis, J. C., Alma. Beans. 32
 640. Maratic, Joseph, Kewaunee. Peas. 32
 641. Martin, Alfred, Rochester. Beans. 32
 642. Modlie, W., Clay Banks. Lentils. 32
 643. Mulroy, Patrick, Hortonville. Peas
 and beans. 32
 644. Munger, A. A., Madison. Beans. 32
 645. Nett, Henry, Jericho. Beans. 32
 646. Norton, Henry W., McDill. Beans. 32
 647. Norton, Henry W., River Falls.
 Beans. 32
 648. Nuernberger, Carl, Sheboygan.
 Peas. 32
 649. Owens, O. J., Portage. Beans. 32
 650. Owens, W. W., Portage. Beans. 32
 651. Parcher, R. E., Wausau. Peas. 32
 652. Pansie, H., Princeton. Beans. 32
 653. Paseff, Henry, Ableman. Peas. 32
 654. Peimester, John, Fayette. Beans. 32
 655. Pepper, Robert, Peshigo. Beans. 32
 656. Perry, Matthew, Forestville. Len-
 tils. 32
 657. Peter, Julius, North Greenfield. Beans.
 32
 658. Peterson, E. G., Stockholm. Beans. 32
 659. Prestine, Aug., Peshtigo. Peas. 32
 660. Prill, A., Waupaca. Peas. 32
 661. Ransom, Everett, Janesville. Peas. 32
 662. Raumann, George, Portage. Beans. 32
 663. Reamer, Wm., Mineral Point. Beans. 32
 664. Reed, H. R., Plymouth. Beans. 32
 665. Reed, L. H., Janesville. Peas. 32
 666. Reynolds, E. G., Mineral Point.
 Peas and beans. 32
 667. Rhoda, F., Mauston. Peas. 32
 668. Rhodes, Louis, Kansasville. Beans. 32
 669. Robertson, Robert, Oakland. Beans. 32
 670. Rottstadt, E., Plymouth. Peas. 32
 671. Schemming, F. H., Silver Lake.
 Beans. 32
 672. Schnelling, W. F., Cataract. Peas. 32
 673. Schible, Peter, Sturgeon. Beans. 32
 674. Schofield, Wm., Hancock. Beans. 32
 675. Selle, A., Mequon. Vetches. 32
 676. Skinner, John, Merritt's Landing.
 Beans. 32
 677. Smith, Albert, Eau Claire. Beans. 32
 678. Smith, Frank, Soloma. Beans. 32
 679. Somnburg, Charles, North Bend.
 Beans. 32
 680. Stone, Moses, Marcellon. Beans. 32
 681. Stratton, E. E., Burlington. Beans. 32

DEPARTMENT A.—AGRICULTURE.

682. Straubel & Ebeling, Green Bay. Beans. 32
 683. Tall, Sam, Janesville. Beans. 32
 684. Tenwke, Mr., Brodhead. Beans. 32
 685. Thibendean, Simon, Luxembourg. Peas and lentils. 32
 686. Thiel, Ferdinand, Menominee. Beans. 32
 687. Thomas, Morris, River Falls. Beans. 32
 688. Tipler, Robert, Neenah. Peas. 32
 689. Troll, Wm., Mineral Point. Peas. 32
 690. Utneckmer, Carl, Antigo. Peas. 32
 691. Vader, Mrs. L., Manitowoc. Peas and beans. 32
 692. Van Sluce, C., Greenbush. Beans. 32
 693. Veltum, George, Juneau. Beans. 32
 694. Walker, Frank, Waupaca. Beans. 32
 695. Wason, Robert, Waterville. Beans. 32
 696. Weaver, John, Garden. Peas. 32
 697. West, H. P., Fayetteville. Beans and peas. 32
 698. White, S. T., Beaver Dam. Beans. 32
 699. Wilbur, Albert, Oconomowoc. Beans. 32
 700. Wilmot, Silas, Ryan. Beans. 32
 701. Wilson, F. M., White Creek. Beans. 32
 702. Windhausen, Math., Manitowoc. Peas. 32
 703. Winkel, Nicholas, Grand Rapids. Beans. 32
 704. Zerbel, Aug., Forestville. Peas. 32

GROUP 8. SE. I-C-7

705. Allness, Ole, Liberty Pole. Havana seed leaf tobacco. 48
 706. Anderson, John, Edgerton. Havana seed leaf tobacco. 48
 707. Anderson, Martin, Dunn. Havana seed leaf tobacco. 48
 708. Anderson, Nels, Westley. Havana seed leaf tobacco. 48
 709. Anderson, R. A., Lodi. Havana and leaf tobacco. 48
 710. Anderson, S., Edgerton. Havana seed leaf tobacco. 48
 711. Asleson, Tom, Edgerton. Havana seed leaf tobacco. 48
 712. Ayer, A., Windsor. Havana seed leaf tobacco. 48
 713. Baxter, James, Windsor. Havana seed leaf tobacco. 48
 714. Bedley, Hans, Bristol. Havana seed leaf tobacco. 48
 715. Bergh, Lorger, Liberty Pole. Havana seed leaf tobacco. 48
 716. Birtness, H. T., & Bro., Orfordville. Havana seed leaf tobacco. 48
 717. Bjoin, E., Utica. Havana seed leaf tobacco. 48
 718. Blanchard, H. D., Madison. Havana seed leaf tobacco. 48
 719. Booras, Peter, Westley. Havana seed leaf tobacco. 48
 720. Bosbon, Andrew, Stoughton. Havana seed leaf tobacco. 48
 721. Brage, Ole, Liberty Pole. Havana seed leaf tobacco. 48
 722. Bringe, Peter, Liberty Pole. Havana seed leaf tobacco. 48
 723. Brown, Geo., York. Havana seed leaf tobacco. 48
 724. Brown, James, Stoughton. Havana seed leaf tobacco. 48
 725. Bulstad, B., Madison. Havana seed leaf tobacco. 48
 726. Bruette, N., Jefferson. Havana seed leaf tobacco. 48
 727. Brye, Lais, Viroqua. Havana seed leaf tobacco. 48
 728. Call, Thos., Viroqua. Havana seed leaf tobacco. 48
 729. Carlson, Ole, Burke. Havana seed leaf tobacco. 48
 730. Cavanaugh, J., Lodi. Havana seed leaf tobacco. 48
 731. Chase, W., Bristol. Havana seed leaf tobacco. 48
 732. Christianson, John, Cambridge. Havana seed leaf tobacco. 48
 733. Christianson, O., Cambridge. Havana seed leaf tobacco. 48
 734. Cleophas, Gus., Beloit. Havana seed leaf tobacco. 48
 735. Collie, Geo., Brooklyn. Havana seed leaf tobacco. 48
 736. Connor, W. O., Liberty Pole. Havana seed leaf tobacco. 48
 737. Cory, W. H., Edgerton. Havana seed leaf tobacco. 48
 738. Craw, Wm., Center. Havana seed leaf tobacco. 48
 739. Criddle, H., Dunn. Havana seed leaf tobacco. 48
 740. Cump, Louis, Edgerton. Havana seed leaf tobacco. 48
 741. Davis, M. G., Viroqua. Havana seed leaf tobacco. 48
 742. Decker, J. A., Janesville. Havana seed leaf tobacco. 48
 743. Doty, J., Burke. Havana seed leaf tobacco. 48
 744. Douglas, H., Bristol. Havana seed leaf tobacco. 48
 745. Dregne, John, Liberty Pole. Havana seed leaf tobacco. 48
 746. Drew, Thos., Edgerton. Havana seed leaf tobacco. 48
 747. Eagan, J. E., Edgerton. Havana seed leaf tobacco. 48
 748. Eckhardt, Fred, Viroqua. Havana seed leaf tobacco. 48
 749. Edwards, John, Viroqua. Havana seed leaf tobacco. 48
 750. Elefson, C., Liberty Pole. Havana seed leaf tobacco. 48
 751. Erdall, C., Lancaster. Havana seed leaf tobacco. 48
 752. Erickson, Andrew, Cambridge. Havana seed leaf tobacco. 48
 753. Everingham, Geo., Janesville. Havana seed leaf tobacco. 48
 754. Favor, Jerome, Springville. Havana seed leaf tobacco. 48
 755. Farness, O., York. Havana seed leaf tobacco. 48
 756. Fartney, D. T., Viroqua. Havana seed leaf tobacco. 48
 757. Finley, Lars, Cambridge. Havana seed leaf tobacco. 48
 758. Fischer, A. L., Center. Havana seed leaf tobacco. 48
 759. Fladhammer, Andrew, Viroqua. Havana seed leaf tobacco. 48

UNITED STATES.

760. Flathme, Thos., Avalanche. Havana seed leaf tobacco. 48
761. Fouran, H., Utica. Havana seed leaf tobacco. 48
762. Froeland, Ben., Avalanche. Havana seed leaf tobacco. 48
763. Gardner, O. P., Orfordville. Havana seed leaf tobacco. 48
764. Green, John, Madison. Havana seed leaf tobacco. 48
765. Good, F., Burke. Havana seed leaf tobacco. 48
766. Goff, Geo., Dunkirk. Havana seed leaf tobacco. 48
767. Gruedzmuehle, George, Madison. Havana seed leaf tobacco. 48
768. Gulbrunson, O., Stoughton. Havana seed leaf tobacco. 48
769. Gundor, Louis, Lodi. Havana seed leaf tobacco. 48
770. Hall, Anamas, Viroqua. Havana seed leaf tobacco. 48
771. Halverson, K., Madison. Havana seed leaf tobacco. 48
772. Hangen, Nels, Rutland. Havana seed leaf tobacco. 48
773. Hanson, Hans, Cottage Grove. Havana seed leaf tobacco. 48
774. Harvey, Mas, Pleasant Springs. Havana seed leaf tobacco. 48
775. Hanson, Hans, Dunkirk. Havana seed leaf tobacco. 48
776. Hanson, John, Edgerton. Havana seed leaf tobacco. 48
777. Hanson, Ole, Westley. Havana seed leaf tobacco. 48
778. Hanson, Peter, Sun Prairie. Havana seed leaf tobacco. 48
779. Hattan, Geo., Rutland. Havana seed leaf tobacco. 48
780. Heltand, E. T., Westley. Havana seed leaf tobacco. 48
781. Hendrickson, John, Liberty Pole. Havana seed leaf tobacco. 48
782. Henry, M., Viroqua. Havana seed leaf tobacco. 48
783. Homey, K. Pleasant Springs. Havana seed leaf tobacco. 48
784. Homstad, Elias, Westley. Havana seed leaf tobacco. 48
785. Holman, Peter, Avalanche. Havana seed leaf tobacco. 48
786. Honeysett, Thos., Edgerton. Havana seed leaf tobacco. 48
787. Hauge, J., Bristol. Havana seed leaf tobacco. 48
788. Haugen, Erick N., Orfordville. Havana seed leaf tobacco. 48
789. Haugen, H. S., Stoughton. Havana seed leaf tobacco. 48
790. Haugensen, John, Westley. Havana seed leaf tobacco. 48
791. Jacobson, Ole, Burke. Havana seed leaf tobacco. 48
792. Jellum, S., Christiana. Havana seed leaf tobacco. 48
793. Jemerson, Ole, Dunn. Havana seed leaf tobacco. 48
794. Jenson, Andrew, Edgerton. Havana seed leaf tobacco. 48
795. Jenson, Erick, Lodi. Havana seed leaf tobacco. 48
796. Jenson, J. O., Brooklyn. Havana seed leaf tobacco. 48
797. Johnson, B. M., Orfordville. Havana seed leaf tobacco. 48
798. Johnson, E., Windsor. Havana seed leaf tobacco. 48
799. Johnson, E. J., Dunn. Havana seed leaf tobacco. 48
800. Johnson, Evling, Cambridge. Havana seed leaf tobacco. 48
801. Johnson, Halver, Avalanche. Havana seed leaf tobacco. 48
802. Johnson, Hans, Dunkirk. Havana seed leaf tobacco. 48
803. Johnson, H., Pleasant Springs. Havana seed leaf tobacco. 48
804. Johnson, I., Westley. Havana seed leaf tobacco. 48
805. Johnson, Jens, Lodi. Havana seed leaf tobacco. 48
806. Johnson, Ole, Rutland. Havana seed leaf tobacco. 48
807. Johnson, Ole, Westley. Havana seed leaf tobacco. 48
808. Jotil, T., Pleasant Springs. Havana seed leaf tobacco. 48
809. Karrow, E., Windsor. Havana seed leaf tobacco. 48
810. Kastend, Ole, Westley. Havana seed leaf tobacco. 48
811. Kier, S. M., Liberty Pole. Havana seed leaf tobacco. 48
812. Kleinschmidt, John, Ft. Atkinson. Havana seed leaf tobacco. 48
813. Klongeland, O., Stoughton. Havana seed leaf tobacco. 48
814. Knudson, C., Cambridge. Havana seed leaf tobacco. 48
815. Knudson, Ole, Leeds. Havana seed leaf tobacco. 48
816. Knudson, Ole O., Orfordville. Havana seed leaf tobacco. 48
817. Knudson, Sever, Blooming Grove. Havana seed leaf tobacco. 48
818. Krause, Carl, Stockbridge. Caraway seed. 47
819. Kravick, Lars, Edgerton. Havana seed leaf tobacco. 48
820. Larson, Sever, Viroqua. Havana seed leaf tobacco. 48
821. Lawrence, Tim, Stoughton. Havana seed leaf tobacco. 48
822. Lenaas, Mrs. O., Utica. Havana seed leaf tobacco. 48
823. Lindermuth, Matt., Chilton. Caraway seed. 47
824. Liston, Ston, Orfordville. Havana seed leaf tobacco. 48
825. Lointon, J. B., Edgerton. Havana seed leaf tobacco. 48
826. Loomis, S. L., Edgerton. Havana seed leaf tobacco. 48
827. Loper, C., York. Havana seed leaf tobacco. 48
828. Loudon, F. W., Janesville. Havana seed leaf tobacco. 48
829. Loudon, Jas. M., Janesville. Havana seed leaf tobacco. 48
830. Lorgor, Ole, Liberty Pole. Havana seed leaf tobacco. 48
831. Lovend, K. K., Viroqua. Havana seed leaf tobacco. 48

DEPARTMENT A.—AGRICULTURE.

- | | |
|--|--|
| 832. MacKend, Simon, Westley. Havana seed leaf tobacco. 48 | 868. Quamen, O., Edgerton. Havana seed leaf tobacco. 48 |
| 833. Marks, John, Edgerton. Havana seed leaf tobacco. 48 | 869. Risum, C. L., Orfordville. Havana seed leaf tobacco. 48 |
| 834. Mathieson, P., Edgerton. Havana seed leaf tobacco. 48 | 870. Roam, C., Stoughton. Havana seed leaf tobacco. 48 |
| 835. McGinnis, John, Dunkirk. Havana seed leaf tobacco. 48 | 871. Rodriguez, A., Ft. Atkinson. Havana seed leaf tobacco. 48 |
| 836. Meissner, F. A., Cashton. Caraway seed. 47 | 872. Routlin, K., Stoughton. Havana seed leaf tobacco. 48 |
| 837. Meland, T. O., Lodi. Havana seed leaf tobacco. 48 | 873. Rumsey, Henry, Springville. Havana seed leaf tobacco. 48 |
| 838. Mitchell, G., Bristol. Havana seed leaf tobacco. 48 | 874. Rusta, Peter, Stoughton. Havana seed leaf tobacco. 48 |
| 839. Mitchell, J., Burke. Havana seed leaf tobacco. 48 | 875. Sanders, Ole, Albion. Havana seed leaf tobacco. 48 |
| 840. Moen Bros., Stoughton. Havana seed leaf tobacco. 48 | 876. Sander, Wm., Morrisonville. Havana seed leaf tobacco. 48 |
| 841. Moen, G. G., Edgerton. Havana seed leaf tobacco. 48 | 877. Sangstad, Theodore. Havana seed leaf tobacco. 48 |
| 842. Mole, Jas. R., Janesville. Havana seed leaf tobacco. 48 | 878. Schrode, F., Stoughton. Havana seed leaf tobacco. 48 |
| 843. Morrison, E. C., Edgerton. Havana seed leaf tobacco. 48 | 879. Severson, Jens, Burke. Havana seed leaf tobacco. 48 |
| 844. Nelson, Anton, Avalanche. Havana seed leaf tobacco. 48 | 880. Sherman, E., Madison. Havana seed leaf tobacco. 48 |
| 845. Nelson, Cornelius, Edgerton. Havana seed leaf tobacco. 48 | 881. Simonson, Ole, Pleasant Springs. Havana seed leaf tobacco. 48 |
| 846. Nelson, O. P., Edgerton. Havana seed leaf tobacco. 48 | 882. Smithack, Ole, Christiania. Havana seed leaf tobacco. 48 |
| 847. Nelson, Wm., Boscobel. Havana seed leaf tobacco. 48 | 883. Smith, Anamas, Viroqua. Havana seed leaf tobacco. 48 |
| 848. Neprud, Elias, Westley. Havana seed leaf tobacco. 48 | 884. Smith, Jac., Madison. Havana seed leaf tobacco. 48 |
| 849. Neprud, S. W., Westley. Havana seed leaf tobacco. 48 | 885. Snyder, J. T., Center. Havana seed leaf tobacco. 48 |
| 850. Nettum, A., Albion. Havana seed leaf tobacco. 48 | 886. Solverson, Peter, Liberty Pole. Havana seed leaf tobacco. 48 |
| 851. Norden, Nels., Mt. Horeb. Havana seed leaf tobacco. 48 | 887. Sorenson, Knud, Medina. Havana seed leaf tobacco. 48 |
| 852. Noyes, W. H., Janesville. Havana seed leaf tobacco. 48 | 888. Soverhill & Porter, Janesville. Havana seed leaf tobacco. 48 |
| 853. Oberson, Swain, Westley. Havana seed leaf tobacco. 48 | 889. Starks, Ole, Stoughton. Havana seed leaf tobacco. 48 |
| 854. Olson, Brown, Westley. Havana seed leaf tobacco. 48 | 890. Stevenson, A., Cambridge. Havana seed leaf tobacco. 48 |
| 855. Olson, Henry, Vienna. Havana seed leaf tobacco. 48 | 891. Strundberg, Nels, Westley. Havana seed leaf tobacco. 48 |
| 856. Olson, Jens, Hampden. Havana seed leaf tobacco. 48 | 892. Svenson, Even, Cambridge. Havana seed leaf tobacco. 48 |
| 857. Olson, John, Dunn. Havana seed leaf tobacco. 48 | 893. Swenson, Peter, Rio. Havana seed leaf tobacco. 48 |
| 858. Olson, T., Windsor. Havana seed leaf tobacco. 48 | 894. Swiggum, Thos., Westley. Havana seed leaf tobacco. 48 |
| 859. Overstrud, O. E., Spring Valley. Havana seed leaf tobacco. 48 | 895. Swinson, Thos., Viroqua. Havana seed leaf tobacco. 48 |
| 860. Parker, Frank, Janesville. Havana seed leaf tobacco. 48 | 896. Temple, A. H., Edgerton. Havana seed leaf tobacco. 48 |
| 861. Pearson, John, Edgerton. Havana seed leaf tobacco. 48 | 897. Thompson, John, Westpart. Havana seed leaf tobacco. 48 |
| 862. Pederson, Yon, Hanover. Havana seed leaf tobacco. 48 | 898. Thones, K. B., Orfordville. Havana seed leaf tobacco. 48 |
| 863. Peterson, C., Liberty Pole. Havana seed leaf tobacco. 48 | 899. Thorsquaard, L., Springville. Havana seed leaf tobacco. 48 |
| 864. Peterson, Elias, Westley. Havana seed leaf tobacco. 48 | 900. Thorstonson, Helick, Christiana. Havana seed leaf tobacco. 48 |
| 865. Potter, W. K., Cambridge. Havana seed leaf tobacco. 48 | 901. Tisbery, K. H., Deerfield. Havana seed leaf tobacco. 48 |
| 866. Powell, E., Viroqua. Havana seed leaf tobacco. 48 | 902. Texley, A., Cambridge. Havana seed leaf tobacco. 48 |
| 867. Preus, N., Viroqua. Havana seed leaf tobacco. 48 | 903. Texley, H., Christiana. Havana seed leaf tobacco. 48 |

UNITED STATES.

904. Usher, Ole, Deerfield.	Havana seed	
leaf tobacco.		48
805. Utter, Dave, Rutland.	Havana seed	
leaf tobacco.		48
906. Wack, Jacob, Liberty Pole.	Havana	
seed leaf tobacco.		48
907. Wangen, Y., Westley.	Havana seed	
leaf tobacco.		48
908. Westram, A. S., Windsor.	Havana	
seed leaf tobacco.		48
909. Williams, W. C., Liberty Pole.		
Havana seed leaf tobacco.		48

GROUP 9.

910. Brenger, Jacob, Clyman.	Wool.	60
911. Broughton, Arthur, Albany.	Wool.	60
912. Cunningham, D. N., Burlington.		
Wool.		60
913. English Shire & Hackney Horse		
Co., Neillsville.	Wool.	60
914. Fox, A. O., Oregon.	Wool.	60
915. Gaines, J. W., Lowell.	Wool.	60
916. Harding, George, & Sons, Wauke-		
sha.	Wool.	60
917. Jones, D. B., Werner.	Wool.	60
918. Jones, Samuel, Hustisford.	Wool.	60
919. Kull, Andrew, Geneva Lake.	Wool.	60
920. McKerrow, George, Sussex.	Wool.	60
921. Payne, J. C., Prairie du Sac.	Wool.	64
922. Phelps, C. K., Springfield.	Wool.	60
923. Pitcher, J. H., Eagle.	Wool.	60
924. Price, Hugh H., Black River Falls.		
Wool.		60
925. Weaver, E. W., Sussex.	Wool.	60
926. White, Alexander, Fulton.	Wool.	60
927. White, Charles, Fulton.	Wool.	60
928. Wisconsin Agricultural & Experi-		
mental Station, Madison.	Wool.	60

GROUP 15.

929. Moore, Willis, L., Milwaukee.	Wis-	
consin weather service statistics.		83
930. Wisconsin State Commission.	Sta-	
tistics of Wisconsin farm lands and photo-		
graphs of farm buildings.		83

GROUP 18.

931. Adams, Frank, Paris.	Flax seed.	95
932. Bauer, Joseph, West Bend.	Flax	
seed.		95
933. Baumach, Frank, Ridgeville.	Flax	
seed.		95
934. Cussik, Tom, Oregon.	Flax seed.	95
935. Detlaff, Augusta, Alaska.	Flax seed.	95
936. Getgen, N., Manitowoc.	Flax seed.	95
937. Herrick, T. J., Horicon.	Rape seed.	95
938. Link, John, Menominee.	Flax seed.	95
939. Loomis, J. C., Alma.	Flax seed.	95
940. Mathews, Dan, Shullsburg.	Flax	
seed.		95
941. Norris, John, Viroqua.	Flax seed.	65
942. Pound, Samuel, Indian Ford.	Flax	
seed.		95
943. Roberts, F. W., Woodworth.	Flax	
seed.		95
944. Schroeter, Gustav, Grafton.	Flax	
seed.		95
945. Shall, William, North Freedom.	Flax seed.	95
946. Stevenson, Mose, Waldwick.	Flax	
seed.		95
947. Stier, Carl, New Holstein.	Rape	
seed.		95
948. West, H. P., Fayetteville.	Flax seed.	95
949. Wickel, Daniel, Waupaca.	Flax	
seed.		95
950. Winkle, Henry, Portage.	Flax seed.	95

WYOMING.

GROUP 1.

1. Brown, William, Big Horn.		
a Wheat.		1
b Corn.		2
c Oats.		3
2. Dickinson, Leroy.		
a Wheat.		1
b Oats.		3
3. Gordon, John H., South Bend.		
a Wheat.		1
b Corn.		2
c Oats.		3
d Barley.		4
4. Johnson, W. R., Wheatland.		
a Wheat.		1
b Corn.		2
c Oats.		3
d Barley.		4
e Rye.		5
f Buckwheat.		7
g Timothy, millet, etc.		8
h Alfalfa, clover.		9
5. Lambrigger, A. A., Sheridan.		
a Wheat.		1
b Corn.		2
c Oats.		3

d Barley.		4
e Rye.		5
f Buckwheat.		7
g Millet and other grasses.		8
h Clover, alfalfa.		9
6. Laramie Experimental Farm, Laramie.		
a Wheat.		1
b Oats.		3
c Barley.		4
d Rye.		5
e Buckwheat.		7
f Alfalfa.		9
7. Lee, William, Saratoga.	Oats.	3
8. McCormick, John, Sheridan		
a Wheat.		1
b Oats.		3
c Barley.		4
d Rye.		5
9. Milne, John, Casper.		
a Wheat.		1
b Corn.		2
c Oats.		3
10. Sonneberger, M. A., Buffalo.		
a Wheat.		1
b Oats.		3
c Barley.		4
d Rye.		5

DEPARTMENT A.—AGRICULTURE.

11. State Experimental Farm, Saratoga.		GROUP 4.	
<i>a</i> Wheat.	1	14. Entulrolhn, Gustav. Potatoes.	28
<i>b</i> Oats.	3	GROUP 5.	
<i>c</i> Barley.	4	15. Johnson, M. R., Wheatland. Pease and	
<i>d</i> Rye.	5	beans.	32
12. Ward, J. P., Crook County.		16. Lambrigger, A. A., Sheridan. Beans	32
<i>a</i> Wheat.	1	and pease.	32
<i>b</i> Millet.	8	GROUP 9.	
13. Williams, Richard, Crook County.		17. Johnson, W. R., Wheatland. Flax.	59
<i>a</i> Wheat.	1	18. Laramie Experimental Farm, Laramie.	
<i>b</i> Oats.	3	Flax.	59
<i>c</i> Rye.	5		

Gottfreid Brewing Co., Chicago, Ill.
Brewers.

For exhibit, see page 494.

Hy Nungesser, New York. Seeds.

For exhibit, see page 641.

C. Aultman & Co., Canton, N. Y.

Agricultural Implements.

For exhibit, see page 430.

Marseilles M'f'g Co., Marseilles, Ill.

Agricultural Implements.

For exhibit, see page 420.

E. L. Boggs, Charleston, W. Va.

Toilet requisites.

For exhibit, see page 1031.

The Wacker & Birk Brewing Co.,

Chicago, Ill. Brewers.

For exhibit, see page 639.

John Dowling & Co., Tyrone, Ky.,

Whisky.

For exhibit, see page 1031.

Keeley Brewing Co., Chicago, Ill.
Brewers.

For exhibit, see page 630.

Cosmo Buttermilk Soap Co., Chicago,
Ill. Soap.

For exhibit, see page 433.

Machinery

S. H. Sinclair & Co., Chicago, Ill.
Laundry machinery.

For exhibit see page 822.

Holly M'f'g Co., Lockport, N. Y.
Pumping engines.

For exhibit see page 439.

New York Safety Steam Power Co.
Chicago, Ill. Engines and boilers.

For exhibit see page 707.

Louis Wertheim.

For exhibit see page 474.

AUSTRIA.

GROUP 1.

1. Kulbelka Gebruder, Klosterhradisch (Moravia). Barley. 4
2. Landwirtschaftlicher Verein, Prerau (Moravia). Agricultural products.
3. Landwirtschaftlicher Verein, Wischau (Moravia). Agricultural products.
4. Landwirtschaftlicher Verein, Olmutz (Moravia). Agricultural products.

GROUP 3.

5. Ambrozic, Michael, Moistrana (Cranio-la). Appliances for the cultivation of bees. 26

GROUP 4.

6. Jirku, H., Birnbaum (Moravia). Seeds of sugar turnips. 30

GROUP 5.

7. Trezinski, S., Sieniawa (Galicia). Shelled pulses. 32

GROUP 8.

8. Elias, V., Urbno (Bohemia). Hops. 46
9. Hausmann, Anton, Urbno (Bohemia). Hops. 46
10. Hopfenmarkt-Halle, Rakonitz (Bohemia). Hops. 46
11. Hopfensignirhalle der Stadt Auscha, Auscha (Bohemia). Hops. 46
12. Kotanyi, Johann, Vienna. Paprika. 47
13. Pfister & Wuestel, Laaz (Bohemia). Hops. 46
14. Piette, P., Freiheit (Bohemia). Cigarettes. 52
15. Schlesinger, Robert, Vienna. Paprika. 47
16. Sonnenschein & Landesmann, Prag (Bohemia). Hops. 46
17. Uejka, Anton, Urbno (Bohemia). Hops. 46

GROUP 9.

18. Antichievich, Giovanni, Postiv (Dalmatia). Chrysanthemum for insecticides. 57
19. Bilic, Giuseppe L., Sebenico (Dalmatia). Chrysanthemum for insecticides. 57
20. Godnig, Eugenio, Zara (Dalmatia). Chrysanthemum for insecticides. 57
21. Plenkovic, G., Gelsa (Dalmatia). Chrysanthemum for insecticides. 57
22. Zaranic, Johann, & Co., Grablje (Dalmatia). Powder for destroying insects. 57

GROUP 10.

23. Mattoni Heinrich, Giesshuebl-Puchstein, near Carlsbad. Mineral waters and well products. 64
24. Mineralquellen, Levico (Tirole). Arsenic mineral waters. 64

25. Mineralquellen Franz Josef, Bitterquelle, Buda-Pesth. Bitter mineral waters. 64
26. Mineralquellen, Franzensbad, Moorprismen (Bohemia). Mineral waters. 64
27. Mineralquellen Hunyadi, Buda-Pesth. Bitter mineral waters. 64
28. Mineralquellen, Rohitsch (Stiria). Mineral waters. 64

GROUP 11.

29. Crkal, Anton, Sohn, Zleb (Bohemia). Liqueurs. 69
30. Kotanyi, Johann, Vienna. Paprika liqueurs. 69
31. "La Ferme," Liqueurfabriks-Actiengesellschaft, Dobruschka (Bohemia). Liqueurs. 69
32. Lichtwitz, Albert, & Co., Troppau (Silesia). Liqueurs. 69
33. Luxardo, Girolamo, Zara (Dalmatia). Maraschino and other liqueurs. 69
34. Reich's Moritz Nachfolger (Sigmund Reich) Biala (Silesia). Liqueurs. 69
35. Vantoch, Ludwig, Nimburg (Bohemia). Liqueurs. 69

GROUP 12.

36. Hauser & Sobotka, Stadlau, near Vienna. Malt and malt products. 72
37. Kubelka Gebrüder, Klosterhradisch (Moravia). Malts. 72
38. Tritzer, Anton, Vienna. Malts. 72
39. Ujezder Malzfabrik Schindler & Stein, Bruenn (Moravia). Malt and malt products. 72

GROUP 15.

40. Ackerbau Ministerium, Vienna. Atlas of the agriculture of Austria. 83
41. Schachinger, P. Coelestin M., Teutendorf (Lower Austria). Work upon cultivation of bees. 83
42. Samencontrol-Station der K.K., Landwirtschaftsgesellschaft, Vienna. Publications on seed raising. 83

GROUP 17.

43. Spieler & Eisler, Vienna. Horn whale-bones. 90

GROUP 18.

44. Gartenberg, Lanterbach, Goldhammer & Wagmann, Drohobycz (Galicia). Ceresine, paraffine wax. 97
45. Weinkamer Gebruder, Salzburg. Wax and waxen goods. 97
46. Zaranic, Johann & Co., Grablje (Dalmatia). Rosemary oil. 95

AUSTRALIA.

VICTORIA, AUSTRALIA—Dept. A.

1. Bailey & Wynne, Terinallum, Darling-ton. Wool and fleeces. 60
2. Clarke, Sir Wm. John, Bolinda Vale, Lancefield. Wool. 60
3. Cummings, Wm., & Son, Mount Fyans, Camperdown. Wool fleeces. 60
4. Currie, John, Titanga and Gala, Lis-more. Wool fleeces. 60
5. Currie, J. L., & Co., Larra, Camper-down. Wool fleeces. 60
6. Elder, Nairne, The Meadows, Roke-wood. Wool. 60
7. Lewis, Wm., Stoneleigh, Beaufort. Wool and fleeces. 60
8. Ritchie, Mrs. Frances, Blythevale, Streatham. Wool fleeces. 60
9. Russell Bros., Carngham. Wool fleeces. 60
10. Sanderson, John, & Co., Brie Brie, Glen Thompson. Wool. 60
11. Simson, Robert, Langi-kal-kal, Tra-wallia. Wool. 60

BELGIUM.

GROUP 2.

1. Bleyfuesz, Adolphe, Verviers. Ginger bread. 13
2. Demichel, Désiré, Dinant. Cakes and pastry. 13

GROUP 3.

3. Candeil, Ch., Brussels. Chocolate and confectionery. 27
4. Senez, Ph., Brussels. Confectionery. 27
5. Société Générale des Fabricants de Sucre de Belgique, Brussels. Raw sugar. 20
6. Vandemaele, Emile, Brussels. Con-fectiionery. 27

GROUP 6.

7. Schmoele, W. F., & Co., Antwerp. Extract of meat. 37
8. Societe Anonyme Fabrique Interna-tionale de Conserves Alimentaires "Le Soleil," Malines. Canned goods. 36

GROUP 8.

9. De Ronne-Delanier, Gand. Chicory. 45
10. Jacobs, F. C., Gand. Chicory. 45
11. Senez, Ph., Brussels. Chocolate, cocoa. 45

12. Tinchant, G. E., Antwerp.

a Tobacco. 48
b Cigars. 52

GROUP 10.

13. Compagnie Fermière des eaux Minér-ales de Spa, Spa. Mineral water. 64

GROUP 11.

14. Decoster, J. F., Brussels. Liqueurs. 69
15. Masquelier, E., Borgerhout. Bitters. 70
16. Planche, L., & Co., Brussels. Liqueurs. 70
17. Van Hooerebeke, frères, Eecloo. Gin. 67

GROUP 12.

18. Bontemps, Jean-Baptiste, Brussels. Beer. 73
19. Goethals, E., Meulebeke. Bottled beer. 73

GROUP 13.

20. Peglion & Gillet, Boitsfort. Metallic bottle stoppers. 77

GROUP 17.

21. De Clerinont & Co., Brussels. Hair for hat making. 91

CAPE OF GOOD HOPE.

GROUP 1.

1. Cape of Good Hope.
a Basuto land cereals.
b Flour. 11

GROUP 5.

2. Cape of Good Hope. Dried fruit; peas and beans. 32

GROUP 8.

3. Cape of Good Hope.
a Bush tea. 45
b Tobacco. 48
c Cigars. 52

GROUP 9.

4. Cape of Good Hope. Wools in fleeces; stuffed sheep and goats. 60

GROUP 15.

5. Cape of Good Hope. Kaffir curios; paintings of flowers and edible fish, colo-nial maps and photographs, pamphlets, statistics, etc. 83

GROUP 17.

6. Cape of Good Hope.
a Tusks of ivory, asbestos. 90
b Stuffed ostriches, eggs, feathers. 91
c Stuffed antelopes and birds, guano. 92
d Salt. 93

CANADA.

GROUP 1.

1. Canadian Government—Central Experimental Farm for Ontario and Quebec, Ottawa. Cereals.
2. Dominion Millers' Association, Toronto. Flour and meal. 11
3. Canadian Government—Experimental Farm for British Columbia, Agassiz. Cereals.
4. Canadian Government—Experimental Farm for Manitoba, Brandon. Cereals.
5. Canadian Government—Experimental Farm for Maritime Provinces, Nappan. Cereals.
6. Canadian Government—Experimental Farm for Northwest Territories, Indian Head. Cereals.
7. Gilchrist, Charles, Port Hope, Ont. Rice. 6
8. Government of Northwest Territories, Regina. Cereals.
9. Joyner & Elkington, Fort Qu'Appelle, Assa. Flour. 11
10. Moose Mountain Trading Co., Cannington, Assa. Flour. 11
11. Peacock, George C., Mount Salem, Ont. Cereals.
12. Provincial Government of British Columbia, Victoria. Cereals.
13. Provincial Government of Nova Scotia, Halifax. Cereals.
14. Provincial Government of Ontario, Toronto. Cereals.
15. Provincial Government of Quebec, Quebec. Cereals.
16. Western Milling Co., Regina, Assa. Wheat and flour. 11

GROUP 2.

17. British American Starch Co., Brantford, Ont. Starch. 16
18. Christie, Brown & Co., Toronto. Biscuits. 14

GROUP 3.

19. Grimm, G. H., M'fg Co., Montreal. Maple sugar. 21
20. Morrison, W. A., Montreal. Maple sugar and syrup. 21
21. Provincial Government of Ontario, Toronto. Honey. 26
22. Provincial Government of Quebec, Quebec. Honey. 26

GROUP 4.

23. Canadian Government—Central Experimental Farm for Quebec, Ottawa. Potatoes, tubers, etc. 28
24. Canadian Government—Experimental Farm for British Columbia, Agassiz. Potatoes, tubers, etc. 28
25. Canadian Government—Experimental Farm for Manitoba, Brandon. Potatoes, tubers, etc. 28

26. Canadian Government—Experimental Farm for Maritime Provinces, Nappan. Potatoes, tubers, etc. 28
27. Canadian Government—Experimental Farm for North-West Territories, Indian Head. Potatoes, tubers, etc. 28
28. Provincial Government of Ontario, Toronto. Potatoes, tubers, etc. 28
29. Provincial Government of Quebec, Quebec. Potatoes, tubers, etc. 28

GROUP 5.

30. Canadian Government Central Experimental Farm for Ontario and Quebec Ottawa. Beans, pease, etc. 32
31. Canadian Government—Experimental Farm for British Columbia, Agassiz. Beans, pease, etc. 32
32. Canadian Government—Experimental Farm for Manitoba, Brandon. Beans, pease, etc. 32
33. Canadian Government—Experimental Farm for Maritime Provinces, Nappan. Beans, pease, etc. 32
34. Canadian Government—Experimental Farm for North-West Territories, Indian Head. Beans, pease, etc. 32
35. Peacock, George C., Mount Salem, Ont. Beans, pease, etc. 32
36. Provincial Government of Ontario, Toronto. Beans, pease, etc. 32
37. Provincial Government of Quebec, Quebec. Beans, pease, etc. 32

GROUP 6.

38. Bray, T. L., Woolsely, N. W. T. Ham and bacon. 34
39. Leaman, J. A., & Co., Halifax, N. S. Canned meats. 36
40. Truro Condensed Milk & Canning Co., Truro, N. S.
 - a Condensed milk. 39
 - b Canned coffee. 40
41. Windsor, J. W., Montreal. Canned fruit, vegetables and fish. 36

GROUP 7.

42. Canadian Government, Department of Agriculture, Ottawa.
 - a Butter. 42
 - b Mammoth cheese (11 tons). 43
43. Erie Supply Co., Dutton, Ont. Churns. 44
 United States patent for sale.
44. Fillmore, Chas. D., Oxford Junction, N. S. Butter tub. 44
45. Miller, T. D., Ingersoll, Ont. Cheese. 43
46. Oswald, W. A., Belle Riviere, Que. Egg and butter carrier. 44
47. Peerless M'fg Co., Toronto. Churns. 44
48. Tyndale, George, Toronto. Milk can and skimmer. 41

DEPARTMENT A.—AGRICULTURE.

GROUP 8.

49. Provincial Government of Quebec, Quebec.
 a Tobacco. 48
 b Cigars. 52

GROUP 9.

50. Livingston, J. J., Baden, Ont. Flax. 59

GROUP 10.

51. Blackwood Bros., Winnipeg, Man. Aerated waters. 65
 52. Gurd, Chas., & Co., Montreal. Aerated waters. 65
 53. Smith, J. R., St. John, N. B. Mineral water. 64

GROUP 11.

- Meagher Bros. & Co., Montreal. Wine. 66
 55. Walker, Hiram, & Sons, Walkerville, Ont. Whisky. 66

GROUP 12.

56. Carling Brewing & Malting Co., London, Ont. Ales and beer. 73
 57. Drewry, Edward L., Winnipeg, Man. Beer, ales and stout. 73
 58. Holliday, Thos., Guelph, Ont. Ales. 73
 59. Labatt, John, London, Ont. Ales and stout. 73
 60. Lindberg, John, Halifax, N. S. Beer, ales and stout. 73
 61. Prescott Brewing & Malting Co., Prescott, Ont. Ales and porter. 73

GROUP 14.

62. Nova Scotia Government, Halifax. Model of fence and irrigation pump. 79
 63. Pearson, Cooper & Mercer, Toronto. Farm gate and opener. 79
 64. Stone, J. N., Woodbridge, Ont. Swing gate and door closer. 82
 65. Stonge, J. E., Weston, Ont. Farm gate. 79

GROUP 16.

66. Abe, John, Engine & Machine Works, Toronto.
 a Separator. 87
 b Traction engine. 89
 67. Blyth M'fg Co., Blythe, Ont. Mower and knife sharpener. 86

68. Campbell, Manson, Chatham, Ont. Fanning mill. 87
 69. Canada Axe & Harvest Tool Co., Montreal. Harvesting tools. 86
 70. Cockshutt Plow Co., Brantford, Ont.
 a Plows and cultivators. 84
 b Potato digger. 86
 71. Coulthard-Scott Co., Oshawa, Ont.
 a Cultivator and harrows. 84
 b Drill and seeder. 85
 72. Filshie, Arch., Mount Forest, Ont. Horse power separators. 87
 73. Fleury's, J., Sons, Aurora, Ont.
 a Plows. 84
 b Grinders, crushers, cutters. 88
 74. Gerolamy, W. A., Tara, Ont. Fanning mill. 87
 75. Grimm, G. H., M'fg Co., Montreal. Sap evaporator. 88
 76. Grout, John H., Grimsby, Ont. Plows. 84
 77. Jackson, Charles, Orillia, Ont. Fanning mill and wheat riddles. 87
 78. Johnston Patent Plow Share Co., Toronto. Plow shares, plows. 84
 79. Massey-Harris Co., Toronto. Agricultural implements. 84
 80. Oshawa Malleable Iron Co., Oshawa, Ont. Iron castings. 88
 81. Provan, James W., Oshawa, Ont. Hay carriers and slings. 86
 82. Ross, Geo., Petrolia, Ont. Sulky plow. 84
 83. Sawyer-Massey Co., Hamilton, Ont.
 a Thresher. 87
 b Traction engine. 89
 84. Shine, Daniel, Poole, Ont. Grain cradle. 86
 85. Tolton Bros., Guelph, Ont.
 a Harrows. 84
 b Pea harvesters. 86
 86. Verity Plow Co., Brantford, Ont. Plows. 84
 87. Watson M'fg Co., Ayr, Ont. Reaping and mowing machines. 86
 88. Wilkin, Alex., Birr, Ont. Potato digger. 86

GROUP 18.

89. Livingston, J. J., Baden, Ont. Flax products. Linseed oil and oil cake. 95

CEYLON.

GROUP 1.

1. Ceylon Commission. Indian corn, kurakkan and iringu. 2

GROUP 3.

2. Ceylon Commission. Jaggery sugar and syrup. 18

GROUP 6.

3. Ceylon Commission. Preserves. 37

GROUP 7.

4. Ceylon Commission. Butter. 42

GROUP 8.

5. Ceylon Commission. Coffee, tea, cocoa, cardamons and cinnamon. 45

GROUP 9.

6. Ceylon Commission. Lolupatta, belipatta, hana, nawapatta, madapatta, pathaliya, kalawellapatta, vhatu aralu, damunupatta, flax, nianda patta, gonipatta, nuga aralu, wara, maila, lolu, dammunu, nawa, kalawella, nuga aralu, niada, embulpala, liniyapatta and niyanda fibres, coir and rope. 59

GROUP 13.

7. Weearratne, A. Model of arrack distillery. 75

CEYLON—DENMARK—ECUADOR.

GROUP 14.

8. Ceylon Commission. Models of tea, rice and cocoanut factories and Kandyan grain store. 82

GROUP 16.

9. Ceylon Commission.
a Plows, water scoop, goad, mud planer, mamoty, adze, katty, axe, knife and chisels. 84
 Model of sickle. 86
c Winnowers. 87
d Yokes, goads, grass cutter, paddy measure, irons for branding and instruments for shoeing bullocks, Habaruwa (a scare-crow) and cinnamon peelers' tools. 88

GROUP 17.

10. Ceylon Commission. Horns and teeth. 90
 11. Hurulle, H. B. Tusks. 90
 12. Rateinahatmaya, Hulugalla. Tusks. 90

GROUP 18.

13. Ceylon Commission. Cocoanut, citronella and essential oils. 95
 14. Ceylon Government. Cocoanut and cinnamon oils. 95
 15. Seysa, Charles de. Poonac, cocoanut oil and dessicated oil. 95

GROUP 19.

16. Ceylon Commission.
a Samples of Ceylon woods. 99
b Ornamental woods, worked. 101

DENMARK.

GROUP 2.

1. Schroder & Jorgensen s Succrs., Copenhagen. Dough cutters. 14

GROUP 6.

2. Abel, H., Glorup, Funen. Condensed milk in tins. 39

GROUP 7.

3. Andersen, Chr., Svenborg, Funen. Dairy appliances. 44
 4. Hegman, Philip W., Copenhagen. Butter in tins. 42
 5. Larsen, C. F., Copenhagen. Milk centrifugals. 44
 6. Müller, C. F., Copenhagen. Milking machine. 44
 7. Nielsen, I., Copenhagen. Milking machine and hand churn. 44
 8. Paasch, W., Horsens, Jutland. Dairy appliances. 44
 9. Petersen, I. C., Copenhagen. Milk centrifugal. 44
 10. Roed, Paul, Copenhagen. Milk and cream controlling apparatus. 44

GROUP 8.

11. Cloetta Bros., Copenhagen. Chocolate. 45

GROUP 11.

12. Hartz, Carl, Copenhagen. Liquors. 67
 13. Petersen, Jacob, Copenhagen. Liquors. 67

GROUP 12.

14. Tuborg Factories, Copenhagen. Beer. 73
 15. United Breweries Company, Ltd., Copenhagen. Extract of malt. 72

GROUP 13.

16. Jensen, W. E., Copenhagen. Yeast apparatus. 74
 17. Nielson, P., Frederiksborg.
a Models of village implements. 84
b Models of planting implements. 85
c Models of harvesting implements. 86

GROUP 18.

18. Rasmussen, C. M., & Spies, Copenhagen. Axle grease. 98
 19. Svendborg Margarine Factory, Svendborg, Funen. Margarine in tins. 94

ECUADOR.

DEPT. A—AGRICULTURE.

GROUP 1.

1. *a* Wheat and tortas. 1
b Corn. 2
c Barley. 4
d Rice. 6
e Pallares, porotillo, quilluyuya, ratany and quaviduda. 7
f Scarlet grain, ihuila, lupine, alfalfa and canare. 9
g Flour and jicamus. 11

GROUP 3.

2. *a* Sugar scrapings. 24
b Honey. 26

GROUP 4.

3. *a* Potatoes, achira, jicamus, mashua. 28
b Carrots, pelma. 30

GROUP 5.

4. Kidney, common and castor beans, chick peas, vetchlings, vetches, lentils. 32

DEPARTMENT A.—AGRICULTURE.

GROUP 7.			
5.	Cheese.	43	
GROUP 8.			
6.	<i>a</i> Cocoa, coffee.	45	
	<i>b</i> Anotto and anise seed; mustard.	47	
GROUP 9.			
7.	<i>a</i> Cotton.	53	
	<i>b</i> Flax; vegetable wool; demajuhua.	59	
	<i>c</i> Frailejon and sheep's wool.	60	
GROUP 10.			
8.	Mineral waters.	64	
GROUP 17.			
9.	Bird feathers.	90	
GROUP 18.			
10.	<i>a</i> Goose grease.	94	
	<i>b</i> Castor oil and linseed.	95	
DEPT. N—FORESTRY.			
GROUP 19.			
11.	<i>a</i> Hurango, cascarilla and sarar barks; cinnamon, zula.	103	
	<i>b</i> India rubber, palm, laurel and beeswax; tagua, gum copal, chicaquina, incense, Peruvian gum.	106	
	<i>c</i> Cocoanuts.	107	
	<i>d</i> Valerians, sarsaparilla, vanilla, sassafras, musnus, guayusa, remerillo, salvaje, quilluiaspi, quinua.	108	
	<i>e</i> Samples of wood; petrified wood.	113	
DEPT. B—HORTICULTURE.			
GROUP 21.			
12.	Tropical fruit in alcohol; chontarrurra; tamarinds.	135	
GROUP 22.			
13.	Dried plants.	164	
DEPT. E—MINES AND MINING			
GROUP 43.			
14.	Petroleum.	294	
GROUP 46.			
15.	Potters' clay; kaolin.	304	
GROUP 47.			
16.	Gypsum.	313	
GROUP 48.			
17.	Alum, sulphur, orchil.	316	
DEPT. H—MANUFACTURES.			
GROUP 88.			
18.	Cochineal.		

GERMANY.

GROUP 1.			
1.	Boettcher & Voelker, Gross Tabarz.		
	<i>a</i> Grass seed.	8	
	<i>b</i> Clover seed.	9	
2.	Mueller, D., & Co., Hamburg. Seeds.	8	
GROUP 2.			
3.	Bahlsen, H., Frankfort. Infants' food.	16	
4.	Glaser, Heinrich, Kaiserslautern. Infants' food.	16	
5.	Hannoversche Cakes-Fabrik, Hanover. Cakes.	13	
6.	Schneider, Rudolph, Barmen. Infants' food.	16	
7.	Seyberlich, Alfred, Dresden. Crystallized starch.	16	
8.	Wurzener Kunstmühlenwerke & Biscuitfabriken, Wurzen, Saxony. Biscuits; wafers.	14	
GROUP 3.			
9.	Bolle, C., Berlin. Milk-sugar. Dairy Bldg.	23	
10.	Haertinger, Carl, Oberwarngau, Upper Bavaria. An apiary and its products.	26	
11.	Haertinger, Carl, Oberwarngau. Honey.	26	
12.	Koritsch, Alphons, Breslau. Confectionery.	27	
13.	Seelig, Emil, Heilbronn. Candied malt coffee.	27	
14.	Seyberlich, Alfred, Dresden. Grape sugar.	19	
15.	Stollwerk, Gebr., Cologne. Confectionery, etc.	27	
GROUP 6.			
16.	Bauer, Henry, Frankfort. Canned sausages.	36	
17.	Brandt, Martin, Lübeck. Canned fish.	36	
18.	Chemisch-Technisches & Hygienisches Just., Frankfort.		
	<i>a</i> Soups.	37	
	<i>b</i> Condensed milk.	39	
19.	Michel, Aug., Strassburg. Canned meat and game; goose liver patties.	36	
20.	Natura Milch Export Gesellschaft, Waren. Sterilized milk and cream.	40	
21.	Pfriem, Joseph, Würzburg.		
	<i>a</i> Canned meats.	36	
	<i>b</i> Sausage.	37	
22.	Schmidt, Heinrich, Frankfort-on-Main. Canned sausages	37	
23.	Schoerke, Alexander, Dresden. Giant sausage.	37	
24.	Tuerk & Pabst, Frankfort-on-Main. Canned sausages.	37	
GROUP 7.			
25.	Baldauf, Martin, Gossholz near Lindau, Bavaria. Cheese.	43	
26.	Bergedorfer Risenwerk, Bergedorf. Centrifugal churns.	44	
27.	Brandt, Martin, Lübeck. Canned butter for export.	42	

GERMANY.

28. Gronwald, Berlin. Milk sterilizing apparatus. 41
 29. Lefeldt, W., & Bentsch, Schoeningen. Steam and hand milk skimmers. 41
 30. Neuhauss, Berlin. Milk sterilizing apparatus. 41
 31. Oehlmann, Berlin. Milk sterilizing apparatus. 41

GROUP 8.

32. Chemisch-Technisches & Hygienisches Just., Frankfort. Chocolate. 45
 33. Erdmann, J. C., Armstadt. Cloves. 47
 34. Frank, Heinrich, & Son, Ludigsburg Wurtemberg. Coffee adulterations. 45
 35. Goedeckemeyer, C., & Co., Freinsheim. Coffee essence. 45
 36. Guggenheim, Adolf, Gailingen. Hop extracts and oils; distilled hops. 46
 37. Pfeiffer & Diller, Horchheim. Coffee adulterations. 45
 38. Rathje, A., & Son, Ploen, Holstein. Chewing tobacco. 51
 39. Reinemann, J., Nuremberg. Hops. 46
 40. Ritter & Co., Dresden. Cigars. 52
 41. Scheuer, Geo. Joseph, Fuerth, Bavaria. Coffee adulterations. 45
 42. Schulein, Simon, Ellingen, Bavaria. Hops. 46
 43. Seelig, Emil, Heilbronn. Coffee, coffee essences and substitutes. 45
 44. Stein & Koester, Mayence. Hops. 46
 45. Uhlfelder, Ludwig, Nuremberg. Hops. 46
 46. Van Guelpen, Max, Muelheim. Cigar machines. 49
 47. Werthheimer & Mathias, Karlsruhe. Cigar wrapper machine. 49

GROUP 9.

48. Leipziger Wollkaemmerei, Leipsic. Combed wool. 60

GROUP 10.

49. Appollinaris Company, Ltd., London. Mineral water. 64
 50. Böhr, H., & Eylert, Düsseldorf. Mineral water. 64
 51. Fachingen on the Lahn. Mineral water. 64
 52. Gerolstein Hause & Charlottenquellen, Gerolstein. Mineral water. 64
 53. Gerolsteiner Sprudel, Gerolstein. Mineral water. 64
 54. Kgl. Preussisches Bad, Neundorf. Sulphur water, etc. 64
 55. Kronthaler Mineralquellen, Kronthal. Mineral water. 64
 56. Niederselters, Wiesbaden. Mineral water. 64
 57. Rheinische Gesellschaft fuer Metal Industrie, Cologne. Mineral water. 64
 58. Rhenser Mineral-brunnen, Rhens. Mineral water. 64
 59. Schwalheimer Brunnen-Comptoir, Schwalheim. Mineral water. 64
 60. Soolbad Juliushall, Harzburg. Mineral water. 64
 61. Weinberg Hitzacker, Sanitarium. Mineral water. 64

GROUP 11.

62. Aberle, Carl, Gutach, Baden. Liqueurs. 69

63. Arp, Ernst L., Kiel. Bitters. 70
 64. Boll, D. H., Luetjenburg, Holstein. Rye whisky, etc. 66
 65. Buff, Ludwig, Echternach. Cordials. 69
 66. Deutsche Benediktine Liqueur Fabrik, Waldenburg in Silesia. Liqueurs. 69
 67. Dieffenbach, J. W., Munich. Liqueurs. 69
 68. Frick, Fr., Lahr, Baden. Liqueurs. 69
 69. Geppert, F., Bühl, Baden. Distilled liqueurs. 67
 70. Gilka, J. A., Berlin. Liqueurs. 69
 71. Kantorowics, David, Posen. a Cordials and liqueurs. 69
 b Bitters and mixed beverages. 70
 72. König, H. L., Steinhagen, Westphalia. a Gin and materials. 67
 b Aromatique liqueur. 69
 73. Lappe, Th., Neudietendorf, Thuringia. Aromatique Liqueur. 69
 74. Murkowski, Stanislaus, Posen. Liqueurs and essences. 69
 75. Schlichte, H. W., Steinhagen, Westphalia. Gin and kindred products, etc. 67
 76. Seyberlich, Alfred, Dresden. Distilled spirits. 67
 77. Todtmann, C. H., Altona. Pure spirits. 68
 78. Underberg, Albrecht H., Rheinberg am Neiderrhein. Bitters. 70

GROUP 12.

79. Actienbrauerei zum Löwenbrau, Munich. Beer. 73
 80. Beck & Co., Kaiserbrauerei, Bremen. Beer. 73
 81. Bierbrauerei zum Thomasbrau, Munich. Beer. 73
 82. Boll, D. H., Lütjenburg, Schleswig-Holstein. Beer. 73
 83. Burgerliches Brauhaus, Munich. Beer. 73
 84. Erich, Franz, Erlangen. Beer. 73
 85. Erste Bamberger Export-Bierbrauerei, "Frankenbräu," Bamberg. Beer in metal barrels. 73
 86. Erste Kulmbacher Exportbier Brauerei, Kulmbach. Beer. 73
 87. Hoff, Johann, Berlin. Malt extract preparations. 72
 88. Hoff, Leopold, Hamburg. Malt extract preparations. 72
 89. Hildebrand, Justus, Pfungstadt, Hessia. Beer. 73
 90. Kulmbacher Export Brauerei "Mönchshof," Kulmbach, Bavaria. Beer. 73
 91. Sandler, G., Kulmbach. Beer. 73
 92. Wagner, Joseph, Munich. Beer. 73
 93. Weyermann, Mich., Bamberg, Bavaria. Malt products. 72

GROUP 13.

94. Burmester, Wilh., Berlin. Vault utensils. 74
 95. Bock, F., Karlsruhe. Mineral water machinery. 77
 96. Bodenheimer, M. B., Cassel. Fermenting vat and barrels. 74
 97. Boldt & Vogel, Hamburg. Refrigerator and machinery for breweries. 77
 98. Euzinger, L. A., Worms. Machinery and appliances for bottling beer. 77
 99. Gehrke, Heinrich, Berlin. Beer filter, siphons, etc. 77

DEPARTMENT A.—AGRICULTURE.

100. Koch, W., Berlin. Barrels and vats. 74
 101. Metallwerke Oktiengesellschaft, Magdeburg.
 a Model of a distilling apparatus. Dept. G. 75
 b Model of a rectifying apparatus. 76
 102. Rheinische Gesellschaft fuer Metallindustrie, Cologne. Circulating siphon. 77
 103. Rohrs, C., Freiberg, Saxonia. Steam distilling apparatus. 75
 104. Sacs, Conrad, Eppstein i-Taunus. Capsules for bottles, etc. 77
 105. Vetter, Louis, Schmiegling, near Nuremberg. Metal capsules. 77
- GROUP 14.**
106. Heinsius, M., Bremen. Works upon stock raising. 81
- GROUP 15.**
107. Friese & Von Puttkamer, Dresden. Works on agriculture. 83
 108. Korn, Wilh. Gottl. Breslau. Works on agriculture. 83
- GROUP 16.**
109. Allweiler, Gotthard, Radolfzell, Baden. Wind pumps, fire and watering engines. 88
 110. Boelte, Gustav, Oschersleben. Hoeing machine. 84
 111. Canstatter Misch & Knetmaschinenfabrik, Wurtemberg. Manure kneading and compounding machines. 88
 112. Dencker, J. H., Sulingen, Hanover. Scythes. 86
 113. Eckert, H. F., Berlin. Steel plows. 84
 114. Klau, Karl, Berlin. Potato harvester. 86
 115. Klinger, C. A., Altsbadt-Stolpen. Threshing machine. 87
 116. Lehnigk, A., Vetschau, Lauritz. Engine and agricultural machinery. 88
 117. Mayer & Co., Kalk. Barley sieves. 88
 118. Sack, Rudolph, Leipsic.
 a Plows. 84
 b Drills. 85
119. Siedersleben, W., & Co., Bernburg. Drill and fertilizing machines. 85
 120. Unterilp, F. W., Magdeburg. Potato digger. 86
 121. Wachtel, D., Breslau. Potato planter. 85
 122. Werner & Pfeiderer, Cannstadt. Models of kneading and compounding machines. 88
 123. Wolf, R., Magdeburg-Buckau. Portable engine. 88
- GROUP 17.**
124. Albert, H. & E., Biebrich-on-Rhine. Fertilizing compounds. 92
 125. Bang, Wilhelm, Hanau. Gelatine. 90
 126. Caesar & Ewald, Zobernheim. Glue. 90
 127. Deutsche Gelatine Fabriken, Hoechst, and Schweinfurt. Gelatine. 90
 128. Fischer & Schmitt, Noechst-on-the-Main. Gelatine and gelatine glue. 90
 129. Hertz, L., & Filts, St. Avold, Lorraine. Gelatine, gelatine glue. 90
 130. Koepff, Gebr., Goepingen. Gelatine. 90
 131. Stuess & Co., Ziegelhausen, near Heidelberg. Gelatine. 90
 132. Werner & Pfeiderer, Cannstadt. Fertilizers. 93
- GROUP 18.**
133. Gautsch, Joseph, Munich. Wax articles. 97
 134. Glafy, G. A., Nuremberg. Night-candles. 97
 135. Heerdter Oelwerke, Heerd, near Neuss-on-the-Rhine. Oils and grease. 94
 136. Roedelius & Co., Trier-on-the-Mosell. Tapers, beeswax, etc. 97
 137. Rosenstein, W., Stettin. Swedish grease for hunting boots. 98
 138. Stettiner Kerzenu und Seifenfabrick, Stettin. Stearic tapers, raw glycerine. 97
 139. Teiller, Paul, Munich. Life size group of wax. 98

GREAT BRITAIN.

GROUP 1.

1. Crosse & Blackwell, Ltd., London. Dried grains. 11
 2. Garton, R. & J., Lancashire. Ears and grain. 2
 3. Hill, R. R., & Sons, Drogheda, Ireland. Oatmeal. 11
 4. M'Cann, John, Drogheda, Ireland. Oatmeal. 11
 5. Mold, W. H., Ashford.
 a Wheat. 1
 b Oats. 3
 6. Power, John, & Son, Dublin, Ireland. Native grain. 1

GROUP 2.

7. Parkinson, R., & Sons, Burnley.
 a Baking powder. 12
 b Custard and egg powders. 13

GROUP 3.

8. British Bee-keepers' Association, London. Honey and literature of bee-keeping. 26
 9. Fry, J. S., & Sons, London. Chocolate confectionery. 27
 10. McNally, Ebenezer, Birmingham. Honey and beeswax, goods manufactured with honey. 26
 11. Pryor, William Wren, Welwyn. Honey and beeswax. 26
 12. Wood Bros. & Boyd, Newcastle, New South Wales. Sugar. 17

GROUP 6.

13. Bovril, Ltd., London. Concentrated beef. 37
 14. Coleman & Co., Ltd., Norwich. Extract of meat. 37

GREAT BRITAIN.

15. **Crosse & Blackwell, Ltd., London.**
a Preserved fish. 36
b Preserved meats, vegetables and soups. 37
16. **Idris & Co., London. Meat preparations.** 37
17. **King, Frederick, & Co., Ltd., London.** Desiccated soups and preserved potato. 37
18. **Liebig's Extract of Meat Company, Ltd., London.** Extract of meat, meat meal, etc. 37
19. **Liquor Carnis Company, Ltd., London.** Juices and jellies of meat. 37
20. **Maconochie Bros., London.**
a Preserved fish. 36
b Preserved meats, soups and vegetables. 37
21. **Webb, Jubal, London.** Ham. 34

GROUP 7.

22. **London & Provincial Dairy Co., London.** Churn and dairy appliances. 44
23. **Nicholls, William, & Co., Chippenham.** Extract of annatto. 43
24. **Webb, Jubal, London.**
a Cream. 41
b Cheese. 43

GROUP 8.

25. **Birmingham Vinegar Brewery Co., Ltd., Birmingham.** Table sauces, pickles, spices, etc. 47
26. **British Deli & Langkat Tobacco Co., Ltd., London.**
a Leaf tobacco. 48
b Cigars. 52
27. **British North Borneo Company, London.**
a Tobacco. 48
b Cigars. 52
28. **Crosse & Blackwell, Ltd., London.** Pickles, sauces and condiments. 47
29. **Edmunds, Joseph, London.** Curry sauce, chutney, etc. 47
30. **Fry, J. S., & Sons, London.** Cocoa and chocolate. 45
31. **Harry & Co., Calcutta, India.** Chutneys, pickles, curry, etc. 47
32. **Keen, Robinson & Belleville, London.** Mustard, groats and barley for invalids. 47
33. **Lipton, Thomas J., London.** Tea and coffee. 45
34. **Maconochie Bros., London.**
a Cocoa. 45
b Spices, pickles, sauces and condiments. 47
35. **McDowall, J., & Co., Glasgow, Scotland.** Horse and cattle condiments, hay and poultry spice. 47
36. **Nowrojee, Framjee, Bombay, India.** Indian condiments. 47
37. **Rickards Machine Company, Ltd., Birmingham.**
a Cigar and cigarette machines and appliances. 49
b Cigars and cigarettes. 52
38. **Smith, T. & H., & Co., London.** Coffee essences, cocoa and chocolate. 45
39. **Sylhet Tea Gardens, London.** 45

GROUP 9.

40. **Combe, Barbour & Combe, Ltd., Belfast, Ireland.** Fibres illustrating processes of manufacture. 59

GROUP 10.

- 40a. **Apollinaris Co., London.** Mineral water. 64
41. **Artesian Company, Ltd., Dublin, Ireland.**
a Artificial mineral waters. 64
b Aerated waters. 65
42. **Belfast Mineral Water Company, Ltd., Belfast, Ireland.** Ginger ale, champagne cider, soda water, etc. 65
43. **Bradford Coffee Tavern Company, Ltd., Bradford.** Aerated waters. 65
44. **Cantrell & Cochrane, Belfast, Ireland.**
a Mineral waters. 64
b Aerated waters. 64
45. **Corry, William, & Co., Belfast, Ireland.** Aerated beverages. 65
46. **Denton, Smith, Bradford.**
a Mineral waters. 65
b Aerated waters. 65
47. **Idris & Co., London.** Aerated waters. 65
48. **Reginaris, Ltd., London.** Mineral waters. 64
49. **Ross, W. A., & Sons, Ltd., Belfast, Ireland.** Ginger ale, soda water, etc. 65
50. **Shanks, J., & Co., Dublin, Ireland.** Aerated non-alcoholic beverages. 65
51. **Smith, T. & H., & Co., London.** Aerated waters. 65
52. **Whistley Water Company, London.** Mineral water. 64

GROUP 11.

53. **Bowmore Distillery Company, Bowmore, Scotland.** Whiskies and samples of grain. 66
54. **Bradford Coffee Tavern Company, Ltd., Bradford.** Cordials and punch. 69
55. **Brown, Malcolm, & Co., Louth, Ireland.** Irish whisky. 66
56. **Buchanan, James, & Co., London.** Scotch whisky. 66
57. **Corry, William, & Co., Belfast, Ireland.** Raspberry vinegar. 17
58. **Crosse & Blackwell, Ltd., London.** Malt vinegar. 71
59. **Dewar, John, & Sons, London.** Highland whisky. 66
60. **Haig, Charles Robert, London.** Welsh malt whiskies. 66
61. **Hopkins, John, & Co., London.** Scotch whisky. 66
62. **Idris & Co., London.** Cordials. 69
63. **Irish Whisky Company Ltd., Belfast.** Irish whisky. 66
64. **Lauder, Archibald, Glasgow, Scotland.** Whisky. 66
65. **Maconochie Bros., London.** Malt vinegar. 71
66. **McCarthy, J., & Sons, Cork, Ireland.** Irish whisky. 66
67. **McDonald, D. P., & Sons, Fort William, Scotland.** Malt whiskies. 66
68. **Menzies, James, Glasgow, Scotland.** Scotch whisky. 66
69. **Nicholson, J. & W., & Co., London.** Gin and spirits. 67
70. **Old Bushmill Distillery Company, Ltd., London.** Irish whisky. 66

DEPARTMENT A—AGRICULTURE.

71. Power, John, & Son, Dublin, Ireland. Whisky. 66
 72. Ross, W. A., & Sons, Ltd., Belfast, Ireland. 69
 a Cordial, etc. 71
 b Raspberry vinegar. 66
 73. Thorne, R., & Sons, Ltd., London. 67
 a Whisky. 72
 b Gin and rum.

GROUP 12.

74. Allsopp, Samuel & Sons, Ltd., Burton-on-Trent. Ales and stouts. 73
 75. Bingham, Cox & Co., St. Albans. Malt liquors. 72
 76. Coleman & Co., Ltd., Norwich. Malt wine. 73
 77. Deasy & Co., Cork, Ireland. Stout and porter. 72
 78. Denton, Smith, Bradford. Hop ale. 73
 79. Foster, M. B., & Sons, Ltd., London, Beers. 73
 80. Murree Brewing Company, Rawal Pindi, East Indies. Beer. 72
 81. O'Reilly, M., & Co., Dublin, Ireland. Malts. 73
 82. Page, J. R., & Sons, Ashwell. Malt liquors. 72
 83. Plunkett, John, & Co., Dublin, Ireland. Malts and maize. 73
 84. Porter, Robert, & Co., London. Ales and stout. 73
 85. Smith, John, Tadcaster Brewery Company, Ltd., Tadcaster. Ales and stout. 73
 86. Tennent, J. & R., Glasgow, Scotland. Malt liquors. 73

GROUP 14.

87. Burdette-Coutts, W., London. Model of Brookfield stud-farm, portraits of some Brookfield prize winners. 78

GROUP 15.

88. British Government, Board of Agriculture, London. Maps illustrating the relative extent of surface in Great Britain under permanent grass and arable culture, with the proportion of the cultivated area employed for wheat. 83
 89. Gilbert, J. H., Rothamstead. Results from the Rothamstead Experimental Farm. 83
 90. Lawes, John Bennett, Rothamstead. Results from Rothamstead Experimental Farm. 83

GROUP 17.

91. Anglo-Continental Guano Works, London. Fertilizing materials. 92
 92. Croft, Gonne & Co., Calcutta, India. Ground bone. 92
 93. Drogheda Chemical Manure Company, Drogheda, Ireland. Manures and raw materials. 92
 94. Liebig's Extract of Meat Company, Ltd., London. Manures. 92
 95. Quibell Bros., Newark-on-Trent. Glue. Dept. H 90

GROUP 18.

96. Ingham's Eucalyptus Oil Company, Rockhampton. 95
 a Oils. 96
 b Soap and boiler fluid. 96
 97. Price's Patent Candle Company, Ltd., London. 96
 a Soaps. 97
 b Candles, tapers, etc.

INDIA.

GROUP 8.

1. Altadanga Tea Company, Ltd., Dooars. Tea. 45
 2. Alyne Tea Estate, Cachar. Tea. 45
 3. Amgoori Tea Estate, Assam. Tea. 45
 4. Assam Frontier Tea Company, Ltd., Assam. Tea. 45
 5. Attareekat Tea Company, Ltd., Assam. Tea. 45
 6. Avongrove Tea Estate, Darjeeling. Tea. 45
 7. Balasun Tea Company, Ltd., Darjeeling. Tea. 45
 8. Banigram Tea Estate, Chittagong. Tea. 45
 9. Bargang Tea Company, Ltd., Assam. Tea. 45
 10. Barokai Tea Company, Ltd., Cachar. Tea. 45
 11. Belgachi Tea Company, Ltd., Terai. Tea. 45
 12. Bengal Tea Company, Ltd., Cachar. Tea. 45
 13. Bhootia Chang Tea Estate, Assam. Tea. 45

14. Bicrampore Tea Estate, Cachar. Tea. 45
 15. Bishnanth Tea Company, Ltd., Assam. Tea. 45
 16. Boisah Habee Tea Estate, Assam. Tea. 45
 17. Borelli Tea Company, Ltd., Assam. Tea. 45
 18. Borpukhurie Tea Company, Ltd., Assam. Tea. 45
 19. Cachar Company, Ltd., Cachar. Tea. 45
 20. Central Terai Tea Company, Ltd., Terai. Tea. 45
 21. Chubwa Tea Company, Ltd., Assam. Tea. 45
 22. Cutlecherra Tea Estate, Cachar. Tea. 45
 23. Dalimgeapar Tea Estate, Assam. Tea. 45
 24. Daodputlee Tea Company, Ltd., Cachar. Tea. 45
 25. Darjeeling Tea Company, Ltd., Darjeeling. Tea. 45
 26. Dooloogram Tea Estate, Cachar. Tea. 45

INDIA.

27. Doom Dooma Tea Estate, Darjeeling. Tea. 45
28. East India Tea Company, Ltd., Cachar. Tea. 45
29. Ellenbarrie Tea Estate, Dooars. Tea. 45
30. Gielle Tea Company, Ltd., Darjeeling. Tea. 45
31. Good Hope Tea Company, Ltd., Dooars. Tea. 45
32. Greenwood Tea Company, Ltd., Assam. Tea. 45
33. Gurjung Jhora Tea Company, Ltd., Dooars. Tea. 45
34. Gyabaree Tea Company, Ltd., Darjeeling. Tea. 45
35. Happy Valley Tea Estate, Darjeeling. Tea. 45
36. Hathibbarrie Tea Estate, Assam. Tea. 45
37. Hoolmaree Tea Company, Ltd., Assam. Tea. 45
38. Hope Tea Company, Ltd., Dooars. Tea. 45
39. Indian Tea Company of Cachar, Ltd., Cachar. Tea. 45
40. Jaldacca Tea Estate, Dooars. Tea. 45
41. Jetinga Valley Tea Company, Ltd., Cachar. Tea. 45
42. Julpaigoorie Tea Company, Ltd., Dooars. Tea. 45
43. Kallincherra Tea Estate, Cachar. Tea. 45
44. Kellyden Tea Estate, Assam. Tea. 45
45. Kettela Tea Company, Ltd., Assam. Tea. 45
46. Kousanie Tea Company, Ltd., Kumon. Tea. 45
47. Kyel Tea Estate, Darjeeling. Tea. 45
48. Land Mortgage Banks' Garden, Assam. Tea. 45
49. Land Mortgage Banks' Garden, Darjeeling. Tea. 45
50. Larsingah Tea Estate, Cachar. Tea. 45
51. Lepelkatta Tea Estate, Assam. Tea. 45
52. Lizziepore Tea Estate, Darjeeling. Tea. 45
53. Longview Tea Company, Ltd., Darjeeling. Tea. 45
54. Luckimpore Tea Company, Ltd., Assam. Tea. 45
55. Majagram Tea Estate, Cachar. Tea. 45
56. Malnadi Tea Estate, Dooars. Tea. 45
57. Matelli Tea Company, Ltd., Dooars. Tea. 45
58. Medla Tea Estate, Assam. Tea. 45
59. Meleng Tea Estate, Assam. Tea. 45
60. Mim Tea Company, Ltd., Darjeeling. Tea. 45
61. Moabund Tea Company, Ltd., Assam. Tea. 45
62. Mohurgong Tea Company, Ltd., Terai. Tea. 45
63. Moran Tea Company, Ltd., Assam. Tea. 45
64. Nagasurie Tea Company, Ltd., Dooars. Tea. 45
65. Nedeem Tea Co., Ltd., Dooars. Tea. 45
66. New Chumta Tea Company, Ltd., Terai. Tea. 45
67. New Mutual Tea Company, Cachar. Tea. 45
68. New Mutual Tea Company, Ltd., Cachar. Tea. 45
69. Northern Bengal Tea Company, Ltd., Dooars. Tea. 45
70. North Sylhet Tea Company, Ltd., Sylhet. Tea. 45
71. North Western Cachar Tea Company, Ltd., Cachar. Tea. 45
72. Oaklands Tea Estate, Assam. Tea. 45
73. Oaks Tea Estate, Darjeeling. Tea. 45
74. Ohat Tea Estate, Assam. Tea. 45
75. Pandam Tea Estate, Darjeeling. Tea. 45
76. Pathecherra Tea Estate, Cachar. Tea. 45
77. Pathemara Tea Estate, Cachar. Tea. 45
78. Punkabaree Tea Company, Ltd., Darjeeling. Tea. 45
79. Puttabong Tea Estate, Darjeeling. Tea. 45
80. Puttareah Tea Company, Ltd., Cachar. Tea. 45
81. Puttia Tea Estate, Chittagong. Tea. 45
82. Ruttonpore Tea Estate, Cachar. Tea. 45
83. Scottish Assam Tea Company, Ltd., Assam. Tea. 45
84. Scottpore Tea Company, Ltd., Cachar. Tea. 45
85. Second Falodhi Tea Company, Ltd., Terai. Tea. 45
86. Second Mutual Tea Company, Ltd., Cachar. Tea. 45
87. Selim Tea Company, Ltd., Terai. Tea. 45
88. Shakomato Tea Company, Ltd., Assam. Tea. 45
89. Sidrapong Tea Estate, Darjeeling. Tea. 45
90. Singbulli & Murmah Tea Co., Ltd., Darjeeling. Tea. 45
91. Solabari & Malijan Tea Estate, Assam. Tea. 45
92. Soom Tea Company, Ltd., Darjeeling. Tea. 45
93. South Sylhet Tea Company, Ltd., Sylhet. Tea. 45
94. Springside Tea Company, Ltd., Darjeeling. Tea. 45
95. Tambulbaree Tea Estate, Assam. Tea. 45
96. Tarrapore Tea Company, Ltd., Cachar. Tea. 45
97. Teesta Valley Tea Company, Ltd., Darjeeling. Tea. 45
98. Tezpore & Gogra Tea Co., Ltd., Assam. Tea. 45
99. Thengalbaree Tea Estate, Assam. Tea. 45
100. Ting Ling Tea Company, Ltd., Darjeeling. Tea. 45
101. Tingri Tea Company, Ltd., Assam. Tea. 45
102. Titadimoro Tea Estate, Assam. Tea. 45
103. Tukvar Tea Company, Ltd., Darjeeling. Tea. 45
104. Western Cachar Tea Company, Ltd., Cachar. Tea. 45

DEPARTMENT A.—AGRICULTURE.

GROUP 85.

105. Harton, W. H., & Co., Calcutta. Ropes and cordage. 552

GROUP 87.

106. Banerjee, D. N., Bombay. Preparations from Indian indigenous herbs. 547
 107. Doyle, Harry, & Co., Calcutta. Musk. 549
 108. Hodges, Edward, Naini Tal. Essential oil, pomade, etc. 549

GROUP 90.

109. Bhumgara, Framji P., & Co., Bombay. Furniture. 567
 110. De Forest, Lockwood, Ahmedabad. Complete room in carved teak wood. 572

GROUP 91:

111. Ardeshir & Byramji, Bombay. Pottery. 575
 112. Marwanjee, P., & Co., Bombay. Pottery. 575

GROUP 93.

113. Ardeshir & Byramji, Bombay. Art metal work. 585
 114. Bhumgara, Framji P., & Co., Bombay. Indian metal vases and trays, brass and copper ware. 585
 115. Marwanjee, P., & Co., Bombay. Art metal ware. 585

GROUP 96.

116. Ardeshir & Byramji, Bombay.
a Carved sandalwood boxes and blackwood furniture. 598
b Ivory inlaid boxes and carved ivory figures. 599
 117. Bhumgara, Framji P., & Co., Bombay.
a Sandalwood and inlaid carved boxes. 598
b Carved ivory boxes. 599
 118. Marwanjee, P., & Co., Bombay.
a Carved sandalwood boxes. 598
b Carved ivory figures. 599

GROUP 97.

119. Ardeshir & Byramji, Bombay.
a Silver jewelry. 607
b India silver and silver inlaid on metal ware. 608
 120. Bhumgara, Framji P., & Co., Bombay.
a Gold and silverware. 604
b Silver jewelry. 607
 121. Das, Bhugwan, & Gopinath, Benares City. Silver articles. 607
 122. Doyle, Harry, & Co., Calcutta. Indian silver jewelry. 607
 123. Marwanjee, P., & Co., Bombay. Gold and silverware. 604

GROUP 98.

124. Ardeshir & Byramji, Bombay. Gold jewelry. 612
 125. Bhumgara, Framji P., & Co., Bombay. Gold jewelry. 612
 126. Marwanjee, P., & Co., Bombay. Jewellery. 612

GROUP 100.

127. Ardeshir & Byramji, Bombay. Curtains and fabrics of silk. 629
 128. Jardinj, Jehangir, Bombay. Fabrics. 629
 129. Shaw, Chadee Lall, Dinapore. Silk fabrics. 629
 130. Shaw, Jhoomuck, Dinapore. Tussar silk fabrics. 629
 131. Shaw, M. L., Dinapore.
a Benares cloth. 628
b Tussar silk fabrics. 629

GROUP 102.

132. Ardeshir & Byramji, Bombay. Curtains and fabrics of cotton. 638
 133. Houssein, M. D., Bengal. Handkerchiefs. 639
 134. Shaw, Chadee Lall, Dinapore. Table cloths, napkins and sheets. 639
 135. Shaw, Jhoomuck, Dinapore. Table cloths, napkins and sheets. 639
 136. Shaw, M. L., Dinapore. Table cloths, napkins and sheets. 639

GROUP 103.

137. Ardeshir & Byramji, Bombay.
a Shawls. 642
b Indian carpets. 649
 138. Houssein, M. D., Bengal. Shawls. 642
 139. Marwanjee, P., & Co., Bombay. Shawls and rugs. 642

GROUP 104.

140. Houssein, M. D., Bengal. Dresses. 653

GROUP 106.

141. Ardeshir & Byramji, Bombay. Embroidery. 669
 142. Bhumgara, Framji P., & Co., Bombay.
a Fans and handscreens. 667
b Embroideries in silk, gold and silver; tinsel cloth. 669
c Curtains. 670
 143. Das, Bhugwan, & Gopinath, Benares City. Art embroidery and needlework of pure gold, silver and silk. 669
 144. Lall, Ganeshi & Son, Simla. Gold and silver embroidery. 669
 145. Marwanjee, P., & Co., Bombay. Embroidery. 669

GROUP 110.

146. Ardeshir & Byramji, Bombay. Indian fancy goods. 695
 147. Bhumgara, Framji P., & Co., Bombay. Fancy goods. 695
 148. Houssein, M. D., Bengal. Fancy goods. 695
 149. Raw Proyag, Bengal. Mechanical dolls representing various phases of Hindu inner life. 695

GROUP 151.

150. Bourne & Shepherd, Calcutta. Photographic carbon enlargements. 871

ITALY.

GROUP 1.

1. Biondi Fillippo, Agira. Wheat. 1
2. Di Cola, Giovanni, Termini Imerese. Grain.
3. Passerini, Carlo, Turin. Agricultural products.

GROUP 2.

4. Bellomo, Francesco, Bakery, Parmleo. Pies.
5. Balsamo, Vincenzo, Termini Imerese. Pastes. 15
6. Bertagni Bros., Bologna. Pastes. 15
7. Buitoni, G., & Bro., Sansepolcra. Pastes. 15
8. Collela, Roberto, Naples. Blood albumen. 16
9. Defferari & Pissarello, Corvo. Paste. 15
10. Lo Monaco Bros., Monreale. Pastes. 15
11. Manino, Carlo, Vizzini. Pastes. 15
12. Restivo, Emanuele, Licata. Almond cake. 13
13. Rossi, Arcanze, Benevento. Almond cake. 13
14. Sansone, Salvatore, Termini Imerese. Pastes. 15
15. Scavone, G. G., Serra di Falco. Honey cake. 13
16. Tancredi, Giuseppe, Naples. Pastes. 15

GROUP 3.

17. Abate, Luigi, Acireale. Sweetmeats. 27
18. Arioli, Silvestro, Varese. Caramels. 27
19. Bonafede, Carlo, Palermo. Honey. 26
20. Gelardi, Tommaso, Palmi Calabria. Sweetmeats. 27
21. Lanzavecchi, Luigi, Varese. Caramels. 27
22. Lui, Salv., & Son, Palermo. Syrup. 21
23. Rocchi, Giuseppe, Belvedere Ostia. Honey. 26
24. Speranza, Francesco, Ariano di Puglia. Live bees. 26
25. Venchi, S., & Co., Turin. Candies. 27

GROUP 6.

26. Arena, Tommaso, Bagheria. Food preparations. 37
27. Cavenaghi & Pellegrini, Milan. Salted meats. 35
28. Migone, Domenico, Genoa. Tunny and sardines. 36
29. Parodi, Angelo, Genoa. Tunny in oil. 36

GROUP 7.

30. Berio, F. & Co., Lucca. Cheese. 43
31. Pecorone, Luigi, Moliterno. Cheese. 43
32. Rocchi, Giuseppe, Belvedere Ostia. Cheese. 43
33. Rolandi, Stefano, Mortara. Cheese. 43

GROUP 8.

34. Biffi, P., Rimini. Sulphurizer. 50
35. Caffarel, Prochet & Co., Turin. Chocolate. 45
36. Renoldi, Davide, Milan. Chocolate. 45

GROUP 9.

37. Caniato & Co., Roviga. Raw hemp. 59
38. Carli, G. fu Angelo, Porto Maurizio. Hemp. 59
39. Cavalieri, Pacifico, Ferrara. Hemp. 59
40. Pediani Francisco, Milan. Silk worm larva. 61
41. Veneziani, Elia, Ferrara. Raw hemp. 59

GROUP 11.

42. Ascione, Salv., Naples. Liqueurs. 69
43. Bellone, Achille, Milan. Liqueurs. 69
44. Besio & Isetta, Savona. Liqueurs. 69
45. Biffi, Rossi, Milan. Liqueurs. 69
46. Boccardo, Francesco, Genoa. Liqueurs. 69
47. Branca Bros., Milan. Liqueurs. 69
48. Branca, Mrs., Milan. Liqueurs. 69
49. Castellotti, Luigi, Grondola. Liqueurs. 69
50. Celli, Tito, Turin. Liqueurs. 69
51. Chamber of Commerce, Modena. Liqueurs. 69
52. Chiellin, Filippo, Breganze. Liqueurs. 69
53. De Martis, P., Giulianova. Liqueurs. 69
54. De Pasquale, Salvatore, Messina. 69
55. De Sena, Elia, Naples. Liqueurs. 69
56. D'Ippolito, Antonio, Pollastri. Liqueurs. 69
57. Farnerari-Manfredi, Vincengo, Monopoli. Liqueurs. 69
58. Freund Ballor & Co., Turin. Liqueurs. 69
59. Gabutti, Pietro, Turin. Liqueurs. 69
60. Garino, Eligio, Biella. Liqueurs. 69
61. Gianotti, Carlo, Milan. Liqueurs. 69
62. Giraud, T. M., Certosa di Pavia. Liqueurs. 69
63. Gori, Arostno, Genoa. Liqueurs. 69
64. Isolabella & Son, Milan. Liqueurs. 69
65. Luise, Achille, Loreto Apurtino. Liqueurs. 69
66. Montera, Giuseppe, Taranto. Liqueurs. 69
67. Notari, Gustavo, Riposto. Spirits. 68
68. Orsini, Erminio, Giulianova. Liqueurs. 69
69. Ortensi, Carlo, Iesi. Liqueurs. 69
70. Piatti, Edwardo, Varese. Liqueurs. 69
71. Pin, Stefano, Fenestrelle. Liqueurs. 69
72. Serranno, Giustino, Aquila. Liqueurs. 69
73. Society for Distilling Kirschwasser, Genoa. Liqueurs. 69
74. Valfre, Giuseppe, Turin. Liqueurs. 69
75. Vanzetti, Giacomo, Biella. Liqueurs. 69

GROUP 13.

76. Cecchi, Luigi, Genoa. Distillery. Dept. F 75

GROUP 15.

77. Russo-Mangeri, Giuseppe, Acireale. Agricultural pamphlets. 83
78. Upper Alps Agrarian Co-operative Association, Montebelluna. Agricultural books. 83

DEPARTMENT A.—AGRICULTURE.

GROUP 16.

79. Ceresa Costa, Do Pietro, Piacenza.
Plows. 84

GROUP 17.

80. Pozzi, G., & Co., Milan. Gelatine. 90

GROUP 18.

81. Agostini Veronesi della Seta, A., Pisa.
Olive oil. 95
82. Alvarez di Toledo, Rodrigo, Palermo.
Olive oil. 95
83. Berio, F., & Co., Lucca. Oils. 95
84. Bonanno, Alfredo, Palermo. Olive oil. 95
85. Chamber of Commerce, Modena. Olive
oil. 95
86. Chizzoni & Marazzi, Milan. Soaps. 96
87. Di Cola, Termini Imerese. Oils. 95
88. De Giacomo, F., & Bros., Naples.
Olive oil. 95
89. Elena, Luigi, Genoa. Olive oil. 95
90. Ferrari, F., Porto Maurizio.
a Olive oil. 95
b Soap. 96
91. Fortuna, R. & P., Lucca. Oils. 95
92. Francesconi, Calisto, Lucca. Olive
oil. 95

93. Francesi, Alfonso, Vasto. Olive oil. 95
94. Giacomini, Comm. Gius., Rome. Oil. 95
95. Giannini, Matteucci, Lucci. Olive oil. 95
96. Giglioli, Giorgi, Leghorn. Olive oil. 95
97. Giuli, Comm. Alberto, Lorenza. Olive
oil. 95
98. Gondi, Carlo, Florence. Olive oil. 95
99. Guillot, Matteo, Alghero. Oil. 95
100. Maniscalco, Bruttari, Palermo. Oils. 95
101. Mayer, Giacomo, Fossacesia. Olive
oil. 95
102. Mazzoni Bros., Empoli. Olive oil. 95
103. Niemack, Carlo, Leghorn.
a Olive oils. 95
b Soap. 96
104. Pilati, Pietro, Bologna. Olive oil. 95
105. Rae & Co., Leghorn. Olive oil. 95
106. Reinach, Ernesto, Milan. Lubricating
oils. 98
107. Sani, Tito, Florence. Olive oil. 95
108. Sasserno, Piccon Mauney, Bari.
Olive oil. 95
109. Sestini, Ing. Ernesto, Pergine. Olive
oil. 95
110. Workingmen's Co-operative Society,
Buti. Olive oil. 95

JAMAICA.

GROUP 1.

1. Calder, W. J., Myersfield, Sav-la-
Mar. Rice. 6

GROUP 2.

2. Alexander, N., Trinityville. Cassava
starch, tapioca. 16
3. Bello, Manuel, Kingston. Banana
meal. 16
4. Bogle, Johnson, Trinityville, Tapioca,
arrow-root, etc. 16
5. Commission for Jamaica, Kingston.
Cassava starch and cakes, arrow-root and
tapioca. 16
6. Cumming, T. W., Montego Bay.
Banana meal. 16
7. Hall, J. P., Brown's Town. Banana
chips, meal and starch. 16
8. Henderson, Mrs. G., Gordon Town.
Cassava cakes. 16
9. Hibbert, J. M., May Pen. Tapioca. 16
10. Hines, Mrs., Spanish Town. Cassava
starch. 16
11. James, A., Port Morant. Banana
meal. 16
12. Key, E. Bassett, Balaclava. Cassava
starch. 16
13. Lambert, Mrs., Shooters' Hill. Cas-
sava starch, tapioca and arrow-root. 16
14. Martin, Mrs., Great Valley. Starches
and arrow-root meals. 16
15. Mason, J. O., Port Antonio. Dried
bananas and meal. 16
16. Reddish, Mrs., Four Paths. Starches
and tapioca. 16
17. Scott, A. B., St. Ann's Bay. Arrow-
root. 16
18. Silvera, A. P., Crescent, Oracabessa.
Cassava starch. 16

19. Strachan, J. F., Black River. Arrow-
root. 16
20. Walker, H., Retreat. Farina, dried
bread fruit, arrow-root, banana meal. 16

GROUP 3.

21. Bogle, John, Trinityville. Sugar. 18
22. Craig, Robert, Chapelton. Sugar. 17
23. Desporte & Co., Kingston. Syrups. 18
24. Elliott, E. C., Alley. Sugar. 18
25. Elliott & Murray, Hayes. Sugar. 18
26. Ewing, Alexander, Spanish Town.
Sugar. 18
27. Goron, C., Spanish Town. Beeswax
and hd 18
28. Grinan, J., Kingston. Sugar. 18
29. Hill, W. J., Ewarton. Beeswax and
honey. 26
30. Kerr, Wm., Falmouth. Sugar. 18
31. Levy, Chas., Kingston. Sugar. 18
32. McCatty, A. G., & Son, Montego Bay.
Syrup. 18
33. Muirhead, G. W., Alley. Sugar. 18
34. Parkins, J. W., Montego Bay.
Sugar. 18
35. Robinson, A., Kingston. Sugar. 18
36. Robertson, G., Little River. Sugar. 18
37. Nixon & Harty, Alley. Sugar. 18
38. Sadler, E. J., Sav-la-Mar. Sugar. 18
39. Shearer, J. W., Duncans. Sugar. 18
40. Shirley, L. C., Duncans. Sugar. 18
41. Stiebel, Geo., Spanish Town. Sugar.
18
42. Strachan, J. F., Black River.
a Syrup. 18
b Honey. 26
43. Trealeven, C., Lacovia. Sugar. 18
44. Verley, Louis, Kingston. Sugar. 18

JAMAICA.

GROUP 4.

45. Walker, H., Retreat. Sweet pota-
toes, yams. 28

GROUP 8.

46. Abrahams, E. R., Four Paths.
a Coffee. 45
b Pimento. 47
47. Anderson, T., Four Paths. Coffee. 45
48. Batson, S., Mandeville. Coffee. 45
49. Bogle, Johnson, Trinityville.
a Coffee, kola, cocoa, etc. 45
b Pimento. 47
50. Bravo, P., Kingston. Chocolate paste,
kola powder, ground coffee. 45
51. Chacon, L., & Co., Kingston. Cigars. 52
52. Chandler, W. C. R., Chapelton.
a Coffee. 45
b Tobacco. 52
53. Colbeck Cigar Company, Ltd., King-
ston. Cigars. 52
54. Davidson, John, Kingston.
a Coffee, kola beans, cocoa. 45
b Pimento. 47
55. De Mercado, Miss, Kingston. As-
sorted pickles. 47
56. Douet, A. W., Claremont.
a Coffee (kola). 45
b Pimento. 47
57. Douet, Geo. A., Four Paths. Coffee. 47
58. Duran, S. V., & Co., Kingston.
a Tobacco. 51
b Cigars and cigarettes. 52
59. Dyer, E. H., Port Maria. Cocoa. 45
60. Edwards, Henry, Porus. Coffee. 45
61. Embden, S., Devon. Coffee. 45
62. Ewing, Alexander C., Spanish Town.
Coffee. 45
63. Francis, J., Gordon Town. Chocolate. 45
64. Gossett, Beresford S., Hagley Gap.
Coffee. 45
65. Gray, J. W., Woodlands. Tobacco. 48
66. Hargraves, G., Cave Valley. Kola
beans and powder. 45
67. Heaven, B. Spencer de, Hagley Gap.
Coffee. 45
68. Hibbert, J. M., May Pen. Kola pow-
der. 45
69. Hilbert, J. L., May Pen. Coffee. 45
70. Hill, W. J., Ewarton. Ginger. 47
71. James, A., Port Morant. Cocoa and
coffee. 45
72. Macfarlane, J., Trinityville. Coffee. 45
73. Machado, B. & J. B., Kingston.
Cigars and cigarettes. 52
74. Maclaverty, Mrs., Cold Spring. Coffee. 45
75. Macphail, John, Bog Walk. Cocoa. 45
76. Mason, J. O., Port Antonio. Cocoa. 45
77. Maxwell, Wm., Four Paths. Coffee. 45
78. McLean, John, Easington. Cayenne
pepper. 47
79. McLean, J., Cold Springs. Coffee. 45
80. Mannere, T., Bull Bay. Cayenne pep-
per. 47
81. Marchalleck, Mrs., Chapelton.
Cayenne pepper. 47
82. Martin, N. C., Great Valley.
a Coffee. 45
b Pimento, pimento dram. 47
83. Martin, J. P., Frankfield. Coffee. 45

84. Martin, T. M., Kingston. Coffee. 45
85. Miller, R. J., Christiana. Ginger. 47
86. Orrett, C., Browns Town. Pimento. 47
87. Quesada, Leonte, Kingston.
a Tobacco. 51
b Cigars and cigarettes. 52
88. Reddish, Mrs., Four Paths. Coffee. 45
89. Robertson, H., Walker's Wood.
Kola beans. 45
90. Sabonadiere, W. A., Arntully. Coffee. 45
91. Sant, W. E., Knipton. Nutmegs. 47
92. Scott, A. B., St. Ann's Bay. Pimento. 47
93. Scudamore, S. C., Winchester. Nut-
megs. 47
94. Shaw, Robt., Christiana. Coffee. 45
95. Smith, Chas., St. Ann's Bay. Coffee. 45
96. Steer, C. W., Claremont. Pimento. 47
97. Stephens, J. A., Hagley Gap. Coffee. 45
98. Stewart, Elias, Bath. Coffee. 45
99. Strachan, J. F., Black River. Kola
beans and powder. 45
100. Taylor, G. G., Hagley Gap. Coffee. 45
101. Walker, H., Retreat. Coffee. 45
102. Westmoreland, W. H. W., Rich-
mond. Cocoa. 45
103. Wynne, W. W., Mandeville. Coffee. 45
104. Young, R. L., Brown's Town. Coffee. 45

GROUP 9.

105. Bayley, E. A., Devon. Assorted
fibres. 59
106. Burke, John, Trinityville. Banana
fibre. 59
107. Davey, E., Devon. Fibre. 59
108. East Caicos Co., Ltd., Turk's Island.
Pita fibre. 59
109. Hall, J. P., Brown's Town. Fibres. 59
110. Hance, J. L., Turk's Island. Fibres. 59
111. Harriott, H. F., Turk's Island. Pita
fibre. 59
112. Sharp, T. H., Kingston. Fibres. 59
113. Tilley, S., Spanish Town. Kus-
kus grass. 59
114. West Caicos Fibre Co., Ltd.,
Turk's Island. Pita fibre. 59

GROUP 10.

115. McCatty, A. G., & Son, Montego
Bay. Aerated waters. 65
116. Strachan, J. F., Black River. Aerated
waters. 65

GROUP 11.

117. Boettcher, G., Spanish Town. Rum. 67
118. Bird & Watson, Kingston.
a Rum. 67
b Wine and cordial. 69
119. Blair, H., Wilkshire. Rum. 67
120. Browne, A. H. & Bros., Lucea. Rum. 67
121. Craig, Robert, Chapelton. Rum. 67
122. Delgado Bros., Falmouth.
a Rum. 67
b Quinine bitters. 70
123. De Mercado, Miss, Kingston. Pepper
wine. 70
124. Desporte & Co., Kingston.
a Rum. 67
b Cordials and liqueurs. 69

DEPARTMENT A.—AGRICULTURE.

125.	Douet, A. W., Claremont.	Pimento cordial.	70
126.	Elliot, E. C., Alley.	Rum.	67
127.	Elliott & Murray, Hayes.	Rum.	67
128.	Ewing, Alexander C., Spanish Town.	Rum.	67
129.	Farquharson, J. C., Latium.	Rum.	67
130.	Farquharson, J. M., Santa Cruz.	Rum.	67
131.	Grinan, J., Kingston.	Rum.	67
132.	Hill, William, Siloah.	Rum.	67
133.	Jump, W., Parnassus, Four Paths.	Rum.	67
134.	Kerr, Wm., Falmouth.	Rum.	67
135.	Levy, Chas., Kingston.	Rum.	67
136.	Lindö, D. & Co., Falmouth.	Bitters.	70
137.	Logan, Quintin, Four Paths.	Rum.	67
138.	Macphail, John, Bog Walk.	Rum.	67
139.	Martin, T. M., Kingston.	Rum.	67
140.	McCatty, A. G., Sons, Montego Bay.	a Liqueurs.	69
		b Bitters.	70
141.	McMillain, A. C., Kingston.	Bitters.	70
142.	Melhado Bros. & Co., Old Harbour.	a Rum.	67
		b Liqueurs.	69
143.	Muirhead, G. W., Alley.	Rum.	67
144.	Nelson, D., St. Ann's Bay.	Vinegar.	71
145.	Nixon & Harty, Alley.	Rum.	67
146.	Parkins, J. W., Montego Bay.	Rum.	67
147.	Pringle, J., Annotto Bay.	Rum.	67
148.	Robertson, G., Little River.	Rum.	67
149.	Robinson, A., Kingston.	Rum.	67
150.	Sadler, E. J., Sav-la-Mar.	Rum.	67
151.	Scott, Alex., Duncans.	Vinegar.	71
152.	Shearer, J. W., Duncans.	a Rum and spirits.	67
		b Cordials.	69
		c Vinegar.	71
153.	Shirley, L. C., Duncans.	Rum.	67
154.	Simon & Co., Kingston.	a Rum.	67
		b Liqueurs.	70
155.	Stewart, R. E., Newport.	Orange sherry.	69
156.	Stiebel, Geo., Spanish Town.	Rum.	67
157.	Strachan, J. F., Black River.	Rum.	67
158.	Trealevan, C., Lacovia.	Rum.	67
159.	Verley, Jas. L., Kingston.	Bitters.	70
160.	Verley, Louis, Kingston.	Rum.	67
161.	Walker, H., Retreat.	Vinegar.	71

GROUP 17.

162.	Commission of Jamaica, Kingston.	Hand painted turtle back.	90
------	----------------------------------	---------------------------	----

GROUP 18.

163.	Walker, H., Retreat.	Cocanut and castor oils, oil of pepper.	95
------	----------------------	---	----

GROUP 19.

164.	Ayton, Miss E., Four Paths.	Orna-mental seeds.	107
165.	Batson, S., Mandeville.	Walking sticks.	108
166.	Brown, C. A., Claremont.	a Woods.	99
		b Seeds.	107
167.	Carr, John, Trinityville.	Annotto coloring paste.	103
168.	Carty, John, Chapelton.	Seeds, lace bark whips.	107
169.	Commission for Jamaica, Kingston.	Carved cocoa and gru-gru nuts, cala-bashes.	107
170.	Douet, A. W., Clairemont.	Velve-seeds.	107
171.	Douet, W. M., Sav-la-Mar.	India rubber.	106
172.	Fawcett, W., Gordon Town.	a Native woods.	99
		b Dried plants.	108
173.	Hargraves, G., Cave Valley.	Stramonium seeds.	108
174.	Hill, W. J., Ewarton.	Lace bark.	103
175.	Hopwood, A. J., Port Antonio.	Gums.	106
176.	Hunter, H., Kingston.	Carved co-coca and gru-gru nuts, bracelets, necklets.	107
177.	Husband, A. E., Newport.	Fancy woods and whip sticks.	101
178.	Key, Chas., Trinityville.	Bamboo baskets.	112
179.	Lambert, Mrs., Shooter's Hill.	a Baskets.	111
		b Whips.	112
180.	McLean, S., Santa Cruz.	Baskets.	111
181.	Owen, J. E., Kingston.	Flower-pot stand.	101
182.	Phillips, J. H., Morant Bay.	Strainer pods.	105
183.	Senior, Robt., Trinityville.	Bamboo hats.	112
184.	Shaw, Robt., Christiana.	Annotto.	103
185.	Shearer, J. W., Duncans.	a Black and green ebony.	101
		b Dye woods.	103
186.	Smith, Chas., St. Ann's Bay.	An-notto.	103
187.	Stewart, Chas., Bath.	Carved co-cocanuts.	107
188.	Tomlinson, R. B., Lacovia.	a Gum.	106
		b Ornamental seeds.	107
189.	Trealevan, C., Lacovia.	Woods.	99
190.	Trench, Dutton, Chester Castle.	Woods.	99
191.	Welsh, J. W., May Pen.	Carved cococanuts.	107

JAPAN.

GROUP 1.

1. Bocho Rice Association, Yamaguchi. Rice. 6
2. Hachiroemon Komasaki, Saitama. Rice. 6
3. Hidesaku Hashimoto, Saitama. Rice. 6
4. Hikotaro Abe, Osaka. Rice. 6
5. Hikotaro Tanaka, Saitama. Rice. 6
6. Ichiroji Koike, Saitama. Rice. 6
7. Issei Nagano, Kumamoto. Rice. 6
8. Iwao Kawashima, Chiba. Rice. 6
9. Japanese Grain Exporting Co., Kobe. Rice. 6
10. Japanese Rice Co., Kobe. Rice. 6
11. Jinroku Ishiura, Toyama. Rice. 6
12. Jirobei Suzuki, Saitama. Rice. 6
13. Kamekichi Koyama, Saitama. Rice. 6
14. Kanshiro Ando, Gifu. Rice. 6
15. Kashimadai Agricultural Association, Miyagi. Rice. 6
16. Katagata County Rice Culturing Association, Gifu. Rice. 6
17. Keizaburo Hara, Saitama. Rice. 6
18. Kichinosuka Suto, Akita. Rice. 6
19. Kihachiro Sato, Shimane. Rice. 6
20. Kishichi Shiratori, Miyagi. Rice. 6
21. Kotaro Hanai, Saitama. Rice. 6
22. Kotsu Village Agricultural Association, Chiba. Rice. 6
23. Kozaburo Sanata, Saitama. Rice. 6
24. Kuhei Igarashi, Yamagata. Rice. 6
25. Kumanosuka Abe, Fukuoka. Rice. 6
26. Kunitaro Shimada, Miyagi. Rice. 6
27. Kyoshin Association, Saitama. Rice. 6
28. Kyusaku Takeda, Toyama. Rice. 6
29. Mataeoman Hara, Saitama. Rice. 6
30. Miwakichi Hara, Saitama. Rice. 6
31. Mosaku Yomoda, Saitama. Rice. 6
32. Nanjyo and Hoei Villages Agricultural Association, Chiba. Rice. 6
33. Nisaku Imanishi, Gifu. Rice. 6
34. Nobuyoshi Fukuchi, Saga. Rice. 6
35. Okayama Rice Association, Okayama. Rice. 6
36. Private Agricultural Association, Kumamoto. Rice. 6
37. Rifu Village Agricultural Association, Miyagi. Rice. 6
38. Rihei Arai, Saitama. Rice. 6
39. Rikinosuke Ishikawa, Akita. Rice. 6
40. Ryoei Stock Exchange, Hyogo. Fine rice. 6
41. Ryoei Stock Exchange, Kobe. Rice. 6
42. Sachu Yoshida, Saitama. Rice. 6
43. Sadakichi Kurihara, Saitama. Rice. 6
- 43a. Sauke Matsui, Kobe. Cracknel (rice). 11
44. Seantaro Shiraishi, Saitama. Rice. 6
45. Shigaken Rice Association, Shiga. Rice. 6
46. Shigeru Yamamoto, Kumamoto. Rice. 6
47. Shoji Kimura, Saitama. Rice. 6
48. Shokei Hidekawa, Osaka. Domyoji (prepared from rice). 11

49. Shosaku Muto, Saitama. Rice. 6
50. Tahei Watanabe, Ehime. Rice. 6
51. Takenosuke Tajima, Saitama. Rice. 6
52. Takichi Koyama, Yamagata. Rice. 6
53. Tokuro Ishikawa, Saitama. Rice. 6
54. Tokutaro Okuma, Saitama. Rice. 6
55. Tosaburo Takahashi, Gifu. Rice. 6
56. Tsunehachi Iijima, Saitama. Rice. 6
57. Tsurukame Fuchinoue, Kumamoto. Rice. 6
58. Tsurutaro Matsumoto, Saitama. Rice. 6
59. Union Rice Exchange, Ehime. Rice. 6
60. Ushitaro Nakatsuka, Saitama. Rice. 6
61. Utakichi Arai, Saitama. Rice. 6
62. Wasuka Yusuda, Gifu. Rice. 6
63. Wazo Sekine, Saitama. Rice. 6
64. Wakayanagi Rice Traders' Association, Miyagi. Rice. 6
65. Yago Sekiguchi, Saitama. Rice. 6
66. Yasukichi Hirata, Yamagata. Rice. 6
67. Yatoji Seda, Saitama. Rice. 6
68. Yassuta Mogi, Saitama. Rice. 6
69. Yasohachi Suzuki, Miyagi. Rice. 6
70. Yajyuro Numajiri, Saitama. Rice. 6
71. Yoshitaro Matsubara, Gifu. Rice. 6
72. Yoshioki Minamibojo, Osaka. Domyoji (prepared from rice). 11
73. Zenzo Furuya, Gifu. Rice. 6

GROUP 2.

74. Gizo Miki, Kagawa. Vermicelli. 15
75. Hanjiro Sakuraoka, Ibaraki. Kon-Nyak flour. 16
76. Kojiro Iketa, Nara. Vermicelli. 15
77. Misaburo Suzuki, Miyagi. Maccaroni. 15
78. Seisuke Fukusaki, Kagawa. Vermicelli. 15
79. Shimpei Mori, Kumamoto. Vermicelli. 15
80. Shinshichi Matsuda, Hyogo. Vermicelli. 15
81. Shiraishi Trading Association, Miyagi. Maccaroni. 15
82. Shirohei Yashirota, Kajawa. Vermicelli. 15
83. Shohei Sato, Miyagi. Maccaroni. 15
84. Tōzō Shigemura, Osaka. Vermicelli. 15
85. Vermicelli Traders' Association, Hyogo. Vermicelli. 15
86. Vermicelli Traders' Association, Nara. Vermicelli. 15
87. Yoshimatsu Ishisaka, Hyogo. Starch of sweet potatoes. 16

GROUP 3.

88. Kiyoei Nakamura, Nagasaki. Preserved oranges. 27
89. Masuhachi Kirisawa, Yokohama. Confections. 27

GROUP 6.

91. Ishitaro Kawachi, Okayama. Canned oysters and white bait. 36

DEPARTMENT A.—AGRICULTURE.

92. Kakubei Suwara, Hokkaido. Canned salmon and salmon trout. 36
93. Kiyoski Suzuki, Kobe.
 a Canned beef. 36
 b Extract of beef. 38
94. Kōzō Shimonda, Kumamoto. Canned shrimp. 36
95. Masanori Matsuda, Nagasaki. Canned sardines and lobsters. 36
96. Mimaisaki Village Fishing Association, Shizuoka. Canned lobsters and sardines. 36
97. Northern Fishery Association, Hokkaido. Canned scallop. 36
98. Okamatsu Okabe, Kagawa. Shrimp extract. 37
99. Renzō Miyazaki, Hiroshima. Extract of oyster. 36
100. Rinta Mizushima, Hokkaidō. Canned salmon trout. 36
101. Sōbei Chikada, Hiroshima. Canned oysters. 36
102. Tatsujiro Fujino, Hokkaido. Canned salmon trout. 36
103. Tatsukichi Tani, Tokushima. Canned sardines. 36
104. Tatsusaburō Takahashi, Kagawa. Shrimp extract. 37
105. Yosobei Ōto, Fukui. Canned crabs. 36
106. Yuha Co., Kumamoto. Canned fish. 36
- GROUP 8.**
107. Aita Tea Association, Okayama. Green tea. 45
108. Atsusane Matsuyama, Miyazaki. Green tea. 45
109. Bumbei Murmatsu, Shizuoka. Green tea. 45
110. Bumpachi Miyasaki, Saga. Green tea. 45
111. Bunemon Isagawa, Gifu. Green tea. 45
112. Bunkichi Matsui, Fukui. Tobacco leaf. 48
113. Bunroku Maruo, Shizuoka. Green tea. 45
114. Buzaemon Sanada, Shiga. Green tea. 45
115. Chōkichi Yamamoto, Shizuoka. Green tea. 45
116. Chōzō Ikeya, Saitama. Green tea. 45
117. Chuji Yoshida, Gifu. Green tea. 45
118. Chūzō Yamamoto, Shizuoka. Green tea. 45
119. Chyubei Asami, Saitama. Green tea. 45
120. Denkichi Hiramatsu, Shizuoka. Green tea. 45
121. Denichi Matahira, Shizuoka. Green tea. 45
122. Esaburō Sait, Shizuoka. Green tea. 45
123. First Yamashiro Tea M'f'g. Co., Kyōto. Green tea. 45
124. Fumio Onishi. Tobacco Leaf. 48
125. Gengo Nishimura, Shiga. Black tea. 45
126. Genkichi Oyaizu, Shizuoka. Green tea. 45
127. Genzaemon Isokawa, Gifu. Green tea. 45
128. Gonichi Wada, Shizuoka. Green tea. 45
129. Gordemon Nakamura, Shizuoka. Green tea. 45
130. Hachiro Tame, Shizuoka. Green tea. 45
131. Hadanō Tobacco Traders' Union, Kanagawa. Tobacco in the leaf. 48
132. Hambei Kitagawa, Kyōto. Green tea. 45
133. Hanzo Iwakame, Iwate. Tobacco leaf. 48
134. Heikichi Fujita, Shizuoka. Green tea. 45
135. Heitaro Miyasaki, Saga. Green tea. 45
136. Hikoichi Okada, Okayama. Tobacco leaf. 48
137. Hinode Co., Kyōto. Green tea. 45
138. Hiroshichi Mochizuki, Shizuoka. Green tea. 45
139. Hisakame Matsumura, Kumamoto.
 a Leaf tobacco. 48
 b Tobacco. 51
 c Cigarettes. 52
140. Hisayoshi Uemura, Nara. Green tea. 45
141. Hyakurien, Shizuoka. Black and green tea. 45
142. Ichirobei Kageyama, Shizuoka. Green tea. 45
143. Ichirōemon Tsuji, Kyōto. Green tea. 45
144. Ichisaburō Takata, Shizuoka. Green tea. 45
145. Ichisuke Morota, Shizuoka. Green tea. 45
146. Ichitarō Shida, Shizuoka. Green tea. 45
147. Ihei Kamohara, Fukushima. Green tea. 45
148. Ihei Osaki, Shizuoka. Green tea. 45
149. Ikichi Uozumi, Kumamoto.
 a Tobacco. 51
 b Cigarettes. 52
150. Ikutarō Ishikawa, Saitama. Green tea. 45
151. Imakichi Yamada, Shizuoka. Green tea. 45
152. Isaburo Tahata, Shizuoka. Green tea. 45
- 152a. Isokichi Miyashita, Gumma. Tobacco leaf. 48
153. Isuke Tono, Osaka.
 a Tobacco. 51
 b Cigarettes. 52
154. Iwanoshin Itō, Saitama. Green tea. 45
155. Jimbei Nakamura, Tokyo. Black tea. 45
156. Jinzaburo Kam, Ibaraki. Tobacco leaf. 48
157. Kahei Otani, Yokohama. Tea (pan and basket fired). 45
158. Kaichirō Ōishi, Kyōto. Green tea. 45
159. Kaichi Takayangi, Saga. Green tea. 45
160. Kataro Nozaki, Kagoshima. Green tea. 45
161. Katsuzo Ono, Tokushima. Tobacco leaf. 48
162. Kakutarō Yamazaki, Saitama. Green tea. 45
163. Kametarō Yamamoto, Kōbe. Green tea. 45
164. Kamiuchida Village Union, Shizuoka. Green tea. 45

JAPAN.

- | | |
|---|--|
| 165. Kanjiro Yasukawa, Chiba. Green tea. 45 | 207. Makichi Suzuki, Shizuoka. Green tea. 45 |
| 166. Kanzō Iwai, Kyōto. Green tea. 45 | 208. Mikajima Trade Association, Saitama. Green tea. 45 |
| 167. Kasuke Yoshida, Saitama. Green tea. 45 | 209. Mikiemon Tsuruoka, Chiba. Green tea. 45 |
| 168. Kazō Muramastu, Shizuoka. Green tea. 45 | 210. Mitsutarō Tsukija, Shizuoka. Green tea. 45 |
| 169. Kazumune Hitomi, Okayama. Tobacco. 51 | 211. Mitsuzo Tanaka, Saitama. Green tea. 45 |
| 170. Kenjiro Sato, Okayama. Tobacco leaf. 48 | 212. Miyoji Matsuo, Nagasaki. Green tea. 45 |
| 171. Kenjiro Yamanoto, Shizuoka. Green tea. 45 | 213. Miyokichi Suzuki, Tochigi. Tobacco leaf. 48 |
| 172. Kihachiro Moriyama, Osaka. a Tobacco. 51
b Cigarettes. 52 | 214. Nagahide Honda, Tochigi. Green tea. 45 |
| 173. Kihachiro Uehara, Saitama. Green tea. 45 | 215. Nakashirō Mihara, Shizuoka. Green tea. 45 |
| 174. Kijiro Murata, Iwate. Tobacco leaf. 48 | 216. Naka Tani, Miyazaki. Black and green tea. 45 |
| 175. Kikuro Okada, Nara. Green tea. 45 | 217. Nihei Takeyama, Fukui. Green tea. 45 |
| 176. Kinjiro Fukuda, Gifu. Green tea. 45 | 218. Nizaemon Tashiro, Kagoshima. Green tea. 45 |
| 177. Kinjiro Sugimoto, Shizuoka. Green tea. 45 | 219. Nobukichi Otani, Saitama. Green tea. 45 |
| 178. Kijuro Nagasawa, Shizuoka. Green tea. 45 | 220. Okayama-ken Tea Association, Okayama. Black tea. 45 |
| 179. Kisaku Ota, Shizuoka. Green tea. 45 | 221. Otokichi Seshimo, Gumma. Tobacco leaf. 48 |
| 180. Kitaro Shirahata, Shizuoka. Green tea. 45 | 222. Rihei Harada, Shizuoka. Green tea. 45 |
| 181. Kito Co., Kasahara Village, Shizuoka. Green tea. 45 | 223. Rihei Tsuji, Kyōto. Green tea. 45 |
| 182. Kito Co., Kawashero Village, Shizuoka. Green tea. 45 | 224. Rinji Yano, Gifu. Green tea. 45 |
| 183. Kito Co., Nakauchida and Shimochida Village Union, Shizuoka. Green tea. 45 | 225. Rinzo Miyashita, Gumma. Tobacco leaf. 48 |
| 184. Kizaemon Kinoshita, Kyōto. Green tea. 45 | 226. Rinzo Seshimo, Gumma. Tobacco leaf. 48 |
| 185. Kogen Mabuchi, Shizuoka. Green tea. 45 | 227. Risuke Tsuji, Kyōto. Green tea. 45 |
| 186. Kōgorō Yamashita, Shizuoka. Green tea. 45 | 228. Rokuroemon, Ozawa, Shizuoka. Green tea. 45 |
| 187. Kohei Makioka, Gifu. Green tea. 45 | 229. Ryobei Tomita, Shizuoka. Green tea. 45 |
| 188. Kohei Shinozaki, Shizuoka. Green tea. 45 | 230. Ryoza Miyake, Saitama. Green tea. 45 |
| 190. Kojiro Tonooka, Shizuoka. Green tea. 45 | 231. Saburobei Kamiki, Saitama. Green tea. 45 |
| 191. Kumakichi Kaygeyama, Shizuoka. Green tea. 45 | 232. Saburō Saka, Shizuoka. Green tea. 45 |
| 192. Kumamoto-ken Tea Association, Kumamoto. Green tea. 45 | 233. Sadakaze Eguchi, Saga. Green tea. 45 |
| 193. Kumatarō Okano, Saitama. Green tea. 45 | 234. Sadanosuke Ishikawa, Chiba. Green tea. 45 |
| 194. Kumo Itō, Kyōto. Green tea. 45 | 235. Sadatake Eguchi, Saga. Green tea. 45 |
| 195. Kuraoka Donen Association, Miyazaki. Tobacco leaf. 48 | 236. Sajiro Matsuda, Nara. Green tea. 45 |
| 196. Kuro Nishiise, Tokushima. Tobacco leaf. 48 | 237. Sajyuro Oishi, Shizuoka. Green tea. 45 |
| 197. Kurozaemon Katahira, Shizuoka. Green tea. 45 | 238. Sakuhei Morinaga, Saga. a Leaf tobacco. 48
b Tobacco. 51
c Cigarettes. 52 |
| 198. Kyōriku Association, Shizuoka. Green tea. 45 | 239. Sagenda Nakao, Tokushima. Tobacco leaf. 48 |
| 199. Kyosan Co., Saitama. Green tea. 45 | 240. Sakujiro Tsuji, Saga. a Leaf tobacco. 48
b Tobacco. 51
c Cigarettes. 52 |
| 200. Kyōto-Fu Tea Traders' Union, Kyoto. Green tea. 45 | 241. Sakura Association, Chiba. Green tea. 45 |
| 201. Kyōto Tea Association, Kyōto. Green tea. 45 | 242. Sanshirō Mori, Nagasaki. Green tea. 45 |
| 202. Kyubei Koyama, Kyōto. Green tea. 45 | 243. Sanshu Nishimura, Chiba. Green tea. 45 |
| 203. Kyuzaburo Otake, Shizuoka. Green tea. 45 | 244. Sanzaemon Mori, Chiba. Green tea. 45 |
| 204. Magojiro Sakamoto, Shizuoka. Green tea. 45 | 245. Satakichi Tsujii, Nara. Green tea. 45 |
| 205. Magosaburo Okada, Gumma. Tobacco leaf. 48 | 246. Sehei Katsuyama, Shizuoka. Green tea. 45 |
| 206. Matsujiro Ishiguro, Toyama. Green tea. 45 | |

DEPARTMENT A.—AGRICULTURE.

247. Seigo Kanada, Fukuoka. Green tea.	45	286. Tokujirō Ōzawa, Saitama. Green tea.	45
248. Seiichi Sawano, Shizuoka. Green tea.	45	287. Tokujirō Sasano, Shizuoka. Green tea.	45
249. Seinojō Matsuo, Kyōto. Green tea.	45	288. Tokushimaken Tea Men's Union, Tokushima. Green tea.	45
250. Seinosuke Narita, Kobe. Green tea.	45	289. Tomijiro Akimoto, Saitama. Green tea.	45
251. Seiroku Yamanashi, Shizuoka. Green tea.	45	290. Tosa Tea Association, Kochi. Green tea.	45
252. Seisuke Mori, Shiga. Green tea.	45	291. Toyota Co., Kuma Village Tea Traders, Shizuoka. Green tea.	45
252a. Seitaro Tanoue, Miyasaki. Tobacco leaf.	48	292. Toyotaro Wada, Shizuoka. Green tea.	45
253. Seizaemon Kosaka, Kyōto. Green tea.	45	293. Toyozo Ishikawa, Tokushima. Tobacco leaf.	48
254. Seizaemon Tanaka, Kyōto. Green tea.	45	294. Tsunehachi Lijima, Saitama. Green tea.	45
255. Senroku Iketa, Saga.		295. Tsunehachi Kishi, Tokushima. Tobacco leaf.	48
<i>a</i> Leaf tobacco.	48	296. Tsunejiro Tomono, Shizuoka. Green tea.	45
<i>b</i> Tobacco.	51	297. Tsunejirō Ueda, Kyōto. Green tea.	45
<i>c</i> Cigarettes.	52	298. Tsuto Mori, Nara. Green tea.	45
256. Senzaemon Fujizaki, Kagoshima. Tobacco leaf.	48	299. Uhei Mori, Gumma. Tobacco leaf.	48
257. Shichiemon Tomozumi, Saitama. Green tea.	45	300. Umenosuke Kimura, Ōsaka. Green tea.	45
258. Shida Co., Hanashi Village, Shizuoka. Green tea.	45	301. Umezo Asami, Saitama. Green tea.	45
259. Shijiro Watanabe, Yokahama. Green tea.	45	302. Unosuke Sakabe, Kyōto. Green tea.	45
260. Shimataro Maeda and one other, Shizuoka. Green tea.	45	303. Utarō Kurebayashi, Shizuoka. Green tea.	45
261. Shinemon Isawa, Tochigi. Green tea.	45	304. Wakataro Tokushima, Shizuoka. Green tea.	45
262. Shintaro Nishiyama, Tochigi. Tobacco leaf.	48	305. Yahei Ono, Tokushima. Tobacco leaf.	48
263. Shiroji Mitsuhashi, Shizuoka. Green tea.	45	306. Yaichi Naitō, Shizuoka. Green tea.	45
264. Shizuoka-ken Oolong Tea Union, Shizuoka. Oolong tea.	45	307. Yamana Co., Kananishi Village, Shizuoka. Green tea.	45
265. Shotaro Hara, Shizuoka. Green tea.	45	308. Yamashiro Momoyama Tea M'fg Co., Kyōto. Green tea.	45
266. Shotaro Yamaguchi, Gumma. Tobacco leaf.	48	309. Yamashiro Yebune Tea M'fg Co., Kyōto. Green tea.	45
267. Shuhei Kuramochi, Ibaraki. Green tea.	45	310. Yoichi Kirihara, Kagoshima. Green tea.	45
268. Sohachi Hirose, Ibaraki. Tobacco leaf.	48	311. Yohei Tsuneno, Kyōto. Green tea.	45
269. Sojyu Morita, Ibaraki. Green tea.	45	312. Yoichirō Sube, Shizuoka. Green tea.	45
270. Sonogi Chiwata Tea Manufacturing Co., Nagasaki. Green tea.	45	313. Yosaku Miyasaki, Shizuoka. Green tea.	45
271. Sōsuke Irie, Kyōto. Green tea.	45	314. Yonesaburo Takahashi, Gumma. Tobacco leaf.	48
272. Tajiro Muramatsu, Shizuoka. Green tea.	45	315. Yoshimichi Nagata, Shizuoka. Green tea.	45
273. Takijiro Nakamura, Shizuoka. Green tea.	45	316. Yoshinobu Harayama, Shizuoka. Green tea.	45
274. Takusen Co., Shizuoka. Green tea.	45	317. Yoshihori Edakawa, Tokushima. Cigarettes.	52
275. Tamaki Kitagawa, Kyōto. Green tea.	45	318. Yōzō Takata, Shizuoka. Green tea.	45
276. Tamaki Watanabe, Nagasaki. Red tea.	45	319. Yoshitarō Moriya, Shizuoka. Green tea.	45
277. Tashichi Unno, Shizuoka. Green tea.	45	320. Zenkichi Aoyama, Shizuoka. Green tea.	45
278. Tea Manufacture Training School, Saitama. Green tea.	45	321. Zentaro Yamamoto, Kumamoto.	
279. Teichi Hara, Gifu. Green tea.	45	<i>a</i> Leaf tobacco.	48
280. Teizui Honda, Shiga. Green tea.	45	<i>b</i> Tobacco.	51
281. Tobei Iwata, Chiba. Green tea.	45	<i>c</i> Cigarettes.	52
282. Tobei Tsuji, Saga.		322. Zenzaburo Ishibashi, Chiba. Green tea.	45
<i>a</i> Leaf tobacco.	48		
<i>b</i> Tobacco.	51		
<i>c</i> Cigarettes.	52		
283. Toichirō Morishita, Shizuoka. Green tea.	45		
284. Tokujiro Kawabata, Saitama. Green tea.	45		
285. Tokujiro Kisawa, Gifu. Green tea.	45		

GROUP 9.

323. Buhei Ishikawa, Kanagawa. Coconos.	61
324. Chozo Murakami, Okayama. Snake-gourd.	59

JAPAN.

325. Dempachi Kurokawa, Tochigi. Hemp. 59
326. Dengoro Takenouchi, Aichi. Snake-gourd. 59
327. Fukuho Shokita, Okinawa. Plantain fibre. 59
328. Gempachiro Inouye, Tochigi. Hemp. 59
329. Gumma Silk Raising Association, Gumma. Cocoons. 61
330. Hanzo Minekishi, Tochigi. Hemp. 59
331. Jyunki Association, Gumma. Cocoons. 61
332. Jyuzo Sakamoto, Tochigi. Hemp. 59
333. Kinjyuro Tamura, Kanagawa. Cocoons. 61
334. Kiseki Silk Raising Association, Gumma. Cocoons. 61
335. Kitakanra Silk Raising Association, Gumma. Cocoons. 61
336. Kosaku Ochiai, Tochigi. Hemp. 59
337. Kyodo Silk Raising Association, Gumma. Cocoons. 61
340. Meiyo Association, Gumma. Cocoons. 61
341. Mokichi Yoshida, Gumma. Hemp. 59
342. Moshichi Oide, Tochigi. Hemp. 59
343. Motojyuro Nagashima, Tochigi. Hemp. 59
344. Naganuma Silk Raising Association, Gumma. Cocoons. 61
345. Oshio Silk Raising Association, Gumma. Cocoons. 61
346. Seihei Toyonaga, Kumamoto. Hemp. 59
347. Seishinsha, Kanagawa. Cocoons. 61
348. Sempachi Kamima, Okinawa. Hemp fibre. 59
349. Taiichiro Kamiyama, Tochigi. Hemp. 59
350. Takayama Silk Raising Co., Gumma. Cocoons. 61
351. Uyeno Silk Raising Co., Gumma. Cocoons. 61
352. Yahei Tashima, Gumma. Cocoons. 61
353. Yeihiro Oguruma, Kumamoto. Hemp. 59
354. Yekishin Silk Raising Association, Gumma. Cocoons. 61
355. Zenjiro Ito, Tochigi. Hemp. 59
- GROUP 10.**
356. Itaro Hinotsume, Ishikawa. Crystallized mineral water. 64
357. Kei Isono, Yokohama. Mineral waters. 64
- GROUP 11.**
358. Brewing Co., Hyogo. Saki. 67
359. Eijiro Awano, Osaka. Saki. 67
360. Eijiro Suga, Hyogo. Mirin. 69
361. Eishichi Takeuchi, Osaka. Saki. 67
362. Etsuzo Tatsuma, Hyogo. Saki. 67
363. Hanemon Tatsuma, Hyogo. Saki. 67
364. Heibei Nakamura, Osaka. Vinegar. 71
365. Ihei Kihara, Hyogo. Saki. 67
366. Jiemon Inafu, Aichi. Saki. 67
367. Jiroemon Kano, Hyogo. Saki. 67
368. Kahei Masuyama, Osaka. Saki. 67
369. Kashichi Naruto, Osaka. Vinegar. 71
370. Keitaro Yagi, Chiba. Mirin. 69
371. Kenyu Watanabe, Hyogo. Saki. 67
372. Kichibei Kubo, Aichi. Saki. 67
373. Kihei Ishizaki, Hyogo. Saki. 67
374. Kihei Kimura, Hyogo. Saki. 67
375. Koma Shibatani, Osaka. Saki. 67
376. Komakichi Torii, Osaka. Saki. 67
377. Mansuke Izumi, Hyogo. Saki. 67
378. Mohei Tsujikawa, Osaka. Saki. 67
379. Mozaemon Wakabayashi, Hyogo. Saki. 67
380. Nada Brewer Asso., Hyogo. Saki. 67
381. Rihei Nakamura, Osaka. Vinegar. 71
382. Rihei Watatani, Osaka. Saki. 67
383. Rikimatsu Konishi, Hyogo. Vinegar. 71
384. Rokuzaemon Noda, Gumma. Saki. 67
385. Sasuke Ito, Osaka. Vinegar. 71
386. Sasuke Sawata, Osaka. Saki. 67
387. Seibei Morimoto, Osaka. Saki. 67
388. Shinemon Konishi, Hyogo. Saki. 67
- a Saki. 67
- b Mirin. 69
389. Shinzo Otsuka, Osaka. Saki. 67
390. Shozo Kato, Osaka. Saki. 67
391. Tadao Makino, Hyogo. Saki. 67
392. Takejiro Shibatani, Osaka. Saki. 67
393. Taki Tatsuma, Hyogo. Saki. 67
394. Tokichi Okazaki, Hyogo. Saki. 67
395. Tokubei Taku, Osaka. Saki. 67
396. Uhei Maruyama, Osaka. Saki. 67
397. Wasaburo Otsuka, Osaka. Saki. 67
398. Yasujiro Itani, Osaka. Saki. 67
399. Yohachiro Koetsuka, Osaka. Saki. 67
- GROUP 12.**
400. Fusagoro Mogi, Chiba. Soy (sauce for fish). 72
401. Gamba Tanaka, Chiba. Soy. 72
402. Genjiro Mori, Kumamoto. Ame (malt extract). 72
403. Heizaemon Takanashi, Chiba. Soy. 72
404. Hidetaro Ichihara, Kumamoto. Soy. 72
405. Hikoshiro Okubo, Kumamoto. Soy. 72
406. Ichisuke Hirano, Shiga. Ame. 72
407. Ihei Ueda, Osaka. Malt. 72
408. Inosuke Uede, Osaka. Malt. 72
409. Kakichi Seki, Chiba. Soy. 72
410. Kakuroku Sonoda, Kumamoto. Ame. 72
411. Kanzo Shirai, Osaka. Ame. 72
412. Keihachi Kobayagawa, Kumamoto. Ame. 72
413. Kichibei Fukai, Chiba. Soy. 72
414. Kichimon Aoki, Gumma. Soy. 72
415. Kisuke Nakamura, Osaka. Ame. 72
416. Koshi Yokota, Hyogo. Ame. 72
417. Kuhei Matsui, Hyogo. Ame. 72
418. Kumataro Ise, Kumamoto. Ame. 72
419. Kumahachi Kimura, Kumamoto. Ame. 72
420. Kyujiro Ando, Osaka. Ame. 72
421. Matasaburo Kawamori, Osaka. Soy. 72
422. Matsuo Kurashima, Ibaraki. Soy. 72
423. Mojiyuro Otsuka, Hyogo. Soy. 72
424. Mozaemon Ino, Chiba. Soy. 72
425. Naoki Matsuoka, Tokyo. Soy. 72
426. Noboro Kawaura, Tokyo. Ame. 72
427. Osaka Brewing Co., Osaka. Beer. 73
428. Otoemon Kajiya, Chiba. Soy. 72
429. Rokubei Wakae, Osaka. Soy. 72
430. Rokuzaemon Noda, Gumma. Soy. 72
431. Senkichi Sugiyama, Yamaguchi. Ame. 72
432. Shirosuke Yagi, Chiba. Soy. 72
433. Shichirozaemon Mogi, Chiba. Soy. 72
434. Shokuro Natsunami, Kumamoto. Ame. 72

DEPARTMENT A.—AGRICULTURE.

435. Shozo Kamasaka and one other, Hyogo. Ame. 72	460. Kichibei Mori, Shiga. Rape seed oil. 95
436. Tadakata Yamaoka, Osaka. Ame. 72	461. Kosaburo Kobashiri, Osaka. Vegetable oil. 95
437. Tateki Irokawa, Tokyo. Soy. 72	462. Kotaro Kurota, Ehime. Raw wax. 97
438. Tatsuno Soy Ass'n, Hyogo. Soy. 72	463. Kusutaro Fukuda, Osaka. Bleached wax. 97
439. Tokubei Horibe, Osaka. Soy. 72	464. Magojiro Kita, Osaka. Bleached wax. 97
440. Tosuke Kumon, Kochi. Ame. 72	465. Manjiro Nishimura, Saga. Bleached wax. 97
441. Tsuneemon Tanaka, Chiba. Soy. 72	466. Matazo Kawabara, Nagasaki. a Whale oil. 94
442. Yasaburo Hino, Osaka. Ame. 72	467. Matsugoro Tsujimoto, Osaka. Cotton seed oil. 95
442a. Yohei Takahama, Osaka. Soy. 72	468. Mosaburo Hodono, Ehime. Bleached wax. 97
443. Zenkichi Tamazawa, Chiba. Soy. 72	469. Naokichi Kuma, Fukuoka. Rape seed oil. 95
GROUP 15.	
444. Agricultural Association, Hokkaido. Collective exhibit. 83	470. Rihei Tanisawa, Osaka. Candles. 97
445. Yujiro Kato, Fukushima. Book on Sericulture. 83	471. Ryokichi Kitahara, Saga. Bleached wax. 97
GROUP 17.	
446. Kichibei Doi, Osaka. Glue. 90	472. Sanjiro Tsukushi, Osaka. Bleached wax. 97
447. Matazo Kawabara, Nagasaki. Whalebones. 90	473. Sataro Haraoka, Saga. Bleached wax. 97
GROUP 18.	
448. Bushiro Terata, Ibaraki. Oil. 95	474. Seibei Inagaki, Toyama. Vegetable oil. 95
449. Chozo Isobe, Shiga. Brassica chinensis. 95	475. Shimbei Ikenaga, Osaka. Rape seed oil. 95
450. Eizo Matsuta, Shiga. Rape seed oil. 95	476. Shinroji Shimizu, Oita. Bleached wax. 97
451. Gihei Morimoto, Shiga. Rape seed oil. 95	477. Sutekichi Nata, Osaka. Rape seed oil. 95
452. Gihei Nakamura, Osaka. Bleached wax. 97	478. Tahei Tamiya, Ibaraki. Rape seed oil. 95
453. Gonshichiro Ogawa, Toyama. Vegetable oil. 95	479. Tejiro Kitaura, Osaka. Rape seed oil. 95
454. Heihachi Okuda, Gifu. Rape seed oil. 95	480. Torajiro Kochi, Hyogo. Bleached wax. 97
455. Ichiroji Inumaru, Saga. Bleached wax. 97	481. Wax M'fg Co., Fukuoka. Raw and bleached wax. 97
456. Iwakichi Matsushima, Nagasaki. Camellia japonica oil. 95	482. Yasuomi Aiga, Kumamoto. Bleached wax. 97
457. Kahei Ueta, Kumamoto. Camellia oil. 95	
458. Kawajiri Whale Fishery Co., Yamaguchi. Whale oil. 94	
459. Kenji Ninagi, Oita. Bleached wax. 97	

LIBERIA.

1. Barline Tribe. 12 Baskets; 13 Hats; Dip Net; Cooking Pot.
2. Bassa Tribe. Passava Cap; Jacko Skin; Raccoon Skin.
3. Boatswain Tribe. Fishing Lines and King Jars. 8 Blue and White Double Country Cloths; 16 Charm Armlets; War Collar; 3 War Caps; Iron Hand Fetish; 3 Fifes; Snuff Gourd; 5 Grass Hats; 2 Powder Horns; 24 Open-work Grass Hammocks; 3 Horns (Musical Instruments); 5 Native Staffs.
4. Congo Tribe. 6 Crawfish Baskets; Bamboo Mat.
5. Dey Tribe. Wooden Bowl, Canoe Paddles, Charms. 13 Bows and Arrows; Strainer for Palm Butter; Bamboo Fish Basket; Grass Basket; Wooden Bowl with Handle; 6 Bowls; Dish Cover; Dipper; Devil's Robe Dress; Devil's Head; 2

- Devil's Faces with Cloth to be attached; Skin Porcupine Fan; Native Fetish; 3 Powder Flasks; Dipper Gourd; Powder Gourd; 2 Palm Oil Calabash Gourds; White Gown; Draft Board (Games); Poo Board (Games); Wooden Idol; Wooden Ladle; 3 Mortars; 8 Small Wooden Spoons; Carved Stool for Kings (Whismore); 4 Large Rice Spoons; 2 Large Soup Spoons; 2 Eating Spoons; 4 Pairs Wooden Sandals; Rattan Pot Stand.
6. Gedibo Tribe. Rouge Bag; Bell; War Cap; 2 Poo Boards (Games); Carved Calabash Gourd; Large Native House (Model); Horn; Hammock; Cocoa Mat; 2 Grass War Skirts.
 7. Golah Tribe. War Collar; Musical Instruments; Country Chalk; 2 Adzes; Blacksmith's Bellows; Rouge Bag; 2 War Collars; Country Smoking Cap; Copper

LIBERIA.

- Necklace with double charms; 4 Canoes; Blacksmith's Hammer; Chief's Hat; Circular Knife; 4 Ring Knives; 2 Large Wooden Spoons; Double Wooden Spoon.
- 3. Kroo Tribe.** Canoe.
- 9. Liberia.** Arrow-root; Skins of Native Animals; Palm and other Oils; Ropes; Resin; Medicinal Plants; Palm Soap; Cassada Starch; Seeds; Cane Sugar and Syrup; Rice; Pepper; Orchids; Cocoa and other Nuts; Native Dyes; Coffee; Corn; Cotton; Personal Adornments; Specimens of Currency; Spoons, Silver Keys and Jewelry; Quills, Quivers and Arrows; Postage Stamps; Hippopotamus Bones and Skins; Photographs; Medals; Hammer; Coins; Chairs; Law Books and Books of the Koran; Bricks; Minerals; Castor Oil Beans; Kaffee Seed; India Rubber; Ginger; Assorted Fibres; Cocoa.
- 10. Liberia College.** Ferns.
- 11. Liberia Tribe.** Gum Arabic; Case Arrow-root; Bag Calabar Beans; Parcel Snake Bones; 6 Snake Bones; 9 Birds; 40 Bags Coffee; Cotton; 7 Bags Cocoa; 50 Ears Corn; 4 Americo-Liberian Chairs; 8 Bags Coffee; Drum Red Ripe Coffee Berries; Box Crystals; 2 Bags Coffee; Case Red Ochre (Dyes); Package Indelible Blue (Dye); Package Plant on which above dye is grown; Yellow Dye Barks; Bundle Fibre; Bundle Fibre (Bamboo); Bundle Fibre (Manila or Plantain); 4 Bundles Fibre (Beach); 3 Bundles Fibre (Bamboo); 2 Bundles Fibre (Piassava); 5 Animal Heads; 3 Birds' Heads; Bush Cow Horn; Hippopotamus *Liberiensis* (Mounted); 24 Hippopotamus Teeth; 8 Little Deer Horns; 14 Bush Cow Horns; 9 Deer Horns; 6 Antelope Horns; 2 Elk Horns; 3 Deer Horns; Hippopotamus Tusk; Sugar Cane Hats; Case Iron Ores; 7 Tusks, Ivory; Case Ivory; Case Ivory Scrap; Bag Palm Kernels; Paper Knife; Money, different issues of 1 and 2 cent pieces; Money, and Paper Currency. Newspaper, "The Observer," "Gazette;" 12 Triple Nests; 4 Swinging Nests; 2 Nests; 3 Barrels Palm Oil; Case Orchid Bulbs; Orchids (described on card); Palm and Nut Oils; Pure Palm Oil from Cape Palmas; Photographs; Peas, Ground; Postage Stamps, Postal Cards and Stamped Envelopes; 2 Bundles Porcupine Quills; Case Quartz; Case Resin; Model of Liberian House; Case Rubber; 33 Bunches Rice; 3 Water Deer Skins; 7 Fullatomba Skins; 3 Striped Mountain Deer Skins; 3 Brown Mountain Deer Skins; 6 Bush Goat Skins; 7 Red Deer Skins; 4 Striped Monkey Skins; 2 Red Monkey Skins; Black Monkey Skins; 5 Jack Monkey Skins; 3 Squirrel Skins; 2 Tiger Cat Skins; 7 Bush Cat Skins; Coon Skin; 3 Otter Skins; Cassada Snake Skin; Black Snake Skin; 4 Leopard Skins; Bundle Sponges; Bundle Tortoise Shells; Otter Skin; Case Coffee Seeds; Case Kolah Seeds; Benne Seeds; Bamboo Seeds; Anatto Seeds; Locust Seeds; Walking Sticks; Saw Fish Teeth; Native Woods (See Cards); Greasy Peach Wood; 2 Pieces Wood; Bag Camwood; 13 Pieces Wood (See Cards); Survey of Monrovia; Survey of Clay Ashland.
- 12. Mandingoe Tribe.** Axes; Bill Books; Wooden Bowl; Rattan Baskets; Grass Bags; Strainers; Slates, Spears and Arrows; Tidies; Leather Girdles; Mortar and Pestles; War Shield; Stool, Shoes and Sandals; King's Staffs; Swords, Spears; Mats; Native Loom; Elephants' Tusks; Ink Stands; Earthenware; Collections of Daggers and Charms; Slave Cloths; Caps; Worship Beads; Skin Covered Bottle; Bows and Arrows; Skin Pouches; Leather Bags; Benen Seeds; 4 Bamboos; Iron Bracelet; 2 Brass Bracelets; 2 Copper Bracelets; 7 Leather and Skin Bags; Basket; Earthen Bottle and Holder; Water Bottle; 2 Leather Bags; 2 Rattan Baskets; Leather Snuff-box; 7 Country Belts; Book Bag, Fancy Bag; Leather Bag; 2 Leathered-covered Bottles; 8 Plain Blue and White Country Cloths, double; 3 Striped Country Cloths, double; Black Grass Warrior Cap; War Cap; 20 Charms; 3 Needle Cases; 2 Niger Country Cloths; Native War Cap; Native War Collar; 11 Leather Charms; 2 Gourd Dippers; 25 Unsheathed Dirks—2 Silver-mounted; 25 Sheathed Dirks; 6 Daggers; Sheath Dagger; 36 Dirks; Country Fiddle; Set Snuff Fixtures; Worked Gown; Talismanic War Gown; 2 Leather and Skin Girdles; Powder Gourd; Girdle; Hat; 3 Hammers; Snuff Horn; 2 Country Harps; Grass Hat; 2 Long Horns; 4 Bars Pig Iron; 27 Inkstands; 2 Earthenware Inkstands; Carved Wooden Inkstand; 3 Sheathed Knives; 2 Knives; Loom; Bopora Map; 6 Mats; 5 Necklaces; Needlecase; 11 Necklaces; Pair Blacksmith's Pincers; 34 Fancy Skin Pouches; 2 Small Pots; 2 Quivers of Pens; Bundle of Pens; 3 Country Pots; Cooking Pot; Case Earthenware Pots; Bamboo Rattle for Child; Rattan Quiver for Arrows; Slave Rope; Reading Matter—"Karan," "Makamat Al Harini," "Al Fala," "Al Salama," "Arabic Manuscript;" 3 Pairs Wooden Sandals; 16 Used Sheathed Swords of Different Patterns; 10 Fancy Native Sticks; 3 Country Slates; 4 Pairs Sandals; King's Stool; 2 Pairs Sandals; 5 Long Spears; Silver-Mounted Sword; 26 Spears; 15 Native Swords; 3 Country Tureens; Pair Worship Beads; 22 Country Whips.
- 13. Pesseh Tribe.** Grass; Bags; Razors; Powder Gourds; Flutes; Snuff Horns; War Cap; Cutter; Calaba Beans; 3 Open-mouthed Grass Bags; 70 Grass Hand Bags; 7 Baskets; 10 Grass Hand Bags; 14 Open-mouthed Bags; 2 Grass Bags; 3 Grass Bags; Large Grass Bag; 11 Copper Bracelets; Small Bag; 6 Cloths; Brass Chain; Dart; 6 Fanners; 2 Fans; 5 Fanners; 4 Fanners; 10 Fish Lines; Blue and White Gown; 7 Poo Boards (Games); Common Country Gown; 13 Bill Hooks; Hoe; 3 King Jars; 16 Knives; 6 Small Knives; 2 King Jars; Loom and Attachment; Peth Mat; 2 Bamboo Mats; 109 Boro Ropes; 2 Razors; 5 Rings; 2 Palm Rings; 3 Native Swords; Gun Shield; 7 Strainers.

DEPARTMENT A.—AGRICULTURE.

14. **Queah Tribe.** Rosewood Canoe; Bamboo Chair; 14 Small Canoes of different woods; 14 Small Paddles of different woods; Bamboo Chair; Poo Board (Game); King's Stool; Bamboo Triple Stool for King's use; 2 Bamboo Trunks; 2 Rattan Trunks.
15. **Vey Tribe.** Hats; Carved Head; Hammocks; Fishing Nets; 5 Axes; 2 Rouge Bags; Grass Fish Bag; Bow and Arrow; Broom; Fish Basket; 2 Silver Bracelets; Brass Bracelet; Grass Basket; 3 Silver Bracelets; 7 Copper Bracelets; Worked Double Country Cloth; 2 White Country Cloths; Blue Country Cloth; 14 Grass Caps; 2 Caps; Grass Dish Cover; 5 Grass Caps; Embroidered Cap; Silver Charm; Copper Breast Charm and Chain; Devil's Head and Fanners for Back; Devil's Head and Fanners for Head; 4 Fish Nets; Blue and Yellow Gown; 3 Embroidered Gowns; 2 Grass Gree-gree Women's Head-dresses; 9 Gree-gree Horns; Embroidered Gown; Poo Board (Game); Native Gree-gree Chalk; 7 Grass and Cotton Gree-gree Charms; Closely-worked Grass Hammock; Hammock; 3 Grass Hats; 2 Grass Hats; Yarn Hammock; Ivory Snuff Horn; Cloth Hammock; 2 Silver Keys; 4 Sherbro Mats; Silver Necklace; Silver Necklace Charm; Dip Net; White Shawl; Worked Shawl; 12 White Scarfs; 2 Blue Native Scarfs; Leopard's Tooth and Tendæ; 24 Grass Whips.
16. **Artis, J. P.** Minerals; Manuscripts, "Customs and Habits of the Natives;" Manuscripts, "Character Sketches of the Fathers of Liberia."
17. **Brown, C. C.** Minerals.
18. **De Coursey, M. T.** Iron ore.
19. Water color painting.
20. **Dennis, W. C.** 3 Large country cloths.
21. **Deputie, J. H.** Stone idol.
22. **Gorrowamah.** Model of Liberian gun-boat.
23. **Green, Miss.** 4 Worked book marks.
24. **Herring, S. S.** Palm soap.
25. **King, A. B.** Idols; ivory; head dresses; bracelets; books of the Koran; chairs.
26. **King, C. T. O.** Bundle beach fibre.
27. **Kroo.** Canoe; kang warrior's knife.
28. **Meiter Syndicate.** 26 pounds rubber.
29. **Payne, B. T.** Alligator skin; Alligator head; passava sticks in the rough; 3 leopard skins.
30. **Ricks, J. H.** Medicinal plants.
31. **Ricks, M. A.** Raised work; embroidered satin quilt, representing a coffee tree in full bloom.
32. **Snetter, E. A.** Pair worked slippers.
33. **Taite, T. I.** Soap.
34. **Valentine, M. S. K.** Model of Gedebo house; writing and printing in Gedebo; gree-grees; war drum; war horn; cooking utensils; leather charms.
35. **Valentine, M. P.** Gedebo sword; king's stool; charm; ding's van—cow tail; Gedibo writing.
36. **Washington, J. S.** 2 cases minerals.
37. **Wheaton, George.** Planking.
38. **White, Richard.** Quilt.
39. **Witherspoon, H. H.** Old iron from native grave.

NETHERLANDS.

GROUP 2.

1. **Van Heek, J., Delden.** Deventer cake. 13

GROUP 7.

2. **Laming, J., & Sons, Rotterdam.** Cheese. 43
3. **Schouten, D., Nieuwerbrug.** Cheese. 43

GROUP 8.

4. **Bensdorp & Co., Amsterdam.** Sweet chocolate and cocoa. 45
5. **Blooker, J. & C., Amsterdam.** Cocoa. 45
6. **Driessen, A., Rotterdam.** Sweet chocolate and cocoa. 45

GROUP 11.

7. **Bohlen Gin Distillery "Weesp," Rotterdam.** Gin. 67
8. **Bols, Erven Lucas, Amsterdam.** Cordials and liqueurs. 69
9. **Ellinckhuysen, Carel, & Son, Rotterdam.** Arrack and Jamaica rum. 67
10. **Fockink, Wynand, Amsterdam.** Cordials and liqueurs. 69

11. **Stibbe, H., Amsterdam.** Cordials and liqueurs. 69
12. **Van Dulken, Weiland & Co., Rotterdam.** Gin. 67
13. **Van Perlstein, Ph., & Son, Doetichem.**
a Cordials and liqueurs. 69
b Bitters. 70

GROUP 20.

14. **Ellinckhuysen, C., & Son, Rotterdam.** Cognac and brandy. 131

GROUP 22.

15. **Boskoop Nursery Ass'n, Boskoop.**
a Roses. 147
b Rhododendrons and azaleas. 150
c Bulbs. 153
16. **Jurissen, Jac., & Son, Naarden.**
a Roses. 147
b Climbing plants. 156
17. **Koster, M., & Co., Boskoop.** Bulbs. 153
18. **Krelage, E. H., & Son, Haarlem.** Darwin tulips, bulbs, etc. 153
19. **Uitgeest Department, Uitgeest.** Bulbs. 153

NETHERLANDS.

20. Van Kleef, W., Boskoop. Bulbs. 153
 21. Van Velzen, A., & Co., Haarlem.
 Dried bulbs. 153

GROUP 25.

22. Boskoop Nursery Ass'n, Boskoop.
 Ornamental trees and shrubs. 185
 23. Jurissen, Jac., & Son, Naarden. Trees
 and shrubs. 185

GROUP 38.

25. Netherlands. Model of herring boat.
 Main O-5 262
 26. Yzermans & Co., Vlaardingen
a Gear for herring fishing. 254
b Herring boat. 262

GROUP 40.

27. Yzermahs & Co., Vlaardingen. Her-
 ring. 272

GROUP 42.

28. Federgrun, N., Amsterdam. Dia-
 monds. 291

GROUP 45.

29. Federgrun, N., Amsterdam. Diamond
 polishing substance. 297

GROUP 58.

30. Federgrun, N., Amsterdam. Machines
 for cutting and polishing diamonds. 373

GROUP 80.

31. Holleman, F. A., Oisterwyk. Air
 brake. 500

GROUP 85.

32. Van Swyndregt, Montauban, Rotter-
 dam. Model Dutch sailing vessel. 528

GROUP 91.

33. Lommen, C. H., Roermond. Porce-
 lain panels. 579
 34. Thooft, Joost, & Labouchere, Delft.
a Earthenware and porcelain. 576
b Painted porcelain. 577
c Tiles for mural and mantel decora-
 tions. 578
d Mural decorations. 579

GROUP 92.

35. Stoltzenberg Co., Roermond. Marble
 and stone statues. 581

GROUP 93.

36. Reyenga, W., & Son, Amsterdam.
 Metal vases and columns. 585

GROUP 95.

37. Lommen, C. H., Roermond. Stained
 church windows. 597
 38. Stoltzenberg Co., Roermond. Stained
 church windows. 597

GROUP 96.

39. Stoltzenberg Co., Roermond. Church
 ornaments. 598

GROUP 106.

40. Stoltzenberg Co., Roermond. Church
 embroideries. 665

GROUP 112.

41. Becker's Sons, Rotterdam.
a Prescription scales. 708
b Assayers' and chemists' scales. 709

GROUP 121.

42. Van Linschoten, G. J., Kralingen.
 Imitations of wood and marble.

GROUP 149.

43. Huet, A., Delft. Maps and drawings
 for engineering colleges. Dept. G 852

GROUP 150.

44. Fynje, J. G. W. Books on engineer-
 ing. Dept. G 854

GROUP 152.

45. Huet, A., Delft. Drawings of water
 works in Holland. Dept. G 881
 46. Royal Institute of Engineers, The
 Hague. Maps and drawings of water
 works in Holland. Dept. G 881

DEPARTMENT N.—Forestry.

GROUP 19.

47. Bunge, W., & Co., Rotterdam. Indigo
 and madder. 103
 48. Mirandolle, Voute & Co., Amsterdam.
 Javapok. 105

NETHERLANDS, EAST INDIES.

Exhibit of the Java-Chicago Exhibition
 Syndicate, Batavia.

DEPARTMENT A.—Agriculture.

GROUP 1.

1. Rice. 6
 2. Flours. 11

GROUP 3.

3. Cane sugar. 18
 4. Palm sugar. 22

GROUP 8.

5. Tea, coffee, cocoa. 45
 6. Pepper, cloves, cinnamon and other
 spices. 47
 7. Tobacco, Java and Sumatra. 48

DEPARTMENT N.—Forestry.

GROUP 19.

8. Indigo. 102
 9. Kapok. 109

DEPARTMENT E.—Mines, Min-
 ing and Metallurgy.

GROUP 52.

10. Tin. 345

NORWAY.

GROUP 6.

1. Conradsen, Johs, Stavanger. Preserved meat and game. Dept. D 36
2. Jensen, G., Hamar. Preserved meats. Dept. H 36
3. Norwegian Milk Condensing Company, Ltd., Christiania. Condensed milk. Dept. H 39
4. Olsen & Kleppe, Stavanger. Preserved game. Dept. D 36
5. Preserving Company, Bergen. Canned turtle, meat and game. Dept. D 36
6. Stangeland, Enok L., Sandnaes.
a Meat and game. Dept. H 36
b Canned meat and game. Dept. D 36

GROUP 7.

7. Aktiebolaget Hermes, Christiania. Milking apparatus. Dept. H 44
8. Alvaer, John H., Bergen. Goat's milk cheese. Dept. H 43
9. Lund, Carl, Christiania. Cheese. Dept. H 43
10. Soiland & Hegland, Stavanger. Cheese. Dept. H 43

GROUP 11.

11. Hartman, Joh., Trondhjem. Punch and North Cape monopol. Dept. H 69
12. Løitens Branderies Destillation, Christiania.
a Aquavit. Dept. H 67
b Pure spirits. 68
c Punch and liqueurs. 69
d Bitters. 70
13. Lysholm, Gorgen B., Christiania.
a Aquavit. Dept. H 67
b Pure spirits. 68
c Punch. 69
14. Oplandske, Spritfabrik, Christiania.
a Aquavit. Dept. H 67
b Pure spirits. 68
c Punch. 69
d Bitters. 70

15. Paulsen, H., & Co., Christiania. Punch. Dept. H 69

GROUP 12.

16. Christiania Actie Olbryggeri, Christiania. Beers and ale. Dept. H 73

GROUP 16.

17. Børsum, Julius, Lillehammer. Horse rake. Dept. H 86

GROUP 17.

18. Bergen Committee at Bergen.
a Whalebone. Dept. D 90
b Whale guano. 92
19. Monsen, Alf, Tonsberg.
a Seal and whale products. Dept. D 90
b Seal and whale guano.

GROUP 18.

20. Aagaard, Andr., Tromsø. Seal and shark oils. Dept. D 94

DEPARTMENT N.—Forestry.

GROUP 19.

21. Bohnsdalen Wood, Pulp & Paper Mills, Ltd., Bohn. Wood pulp. Dept. H 109
22. Gjøvik Cellulosefabrik, Christiania. Dry, bleached and unbleached pulp. Dept. H 109
23. Hunsfos Fabriker, Christiania. Unbleached wood pulp. Dept. H 109
24. Moss Cellulosefabrik, Moss. Chemical wood pulp. Dept. H 109
25. Ranheims Cellulosefabrik, Ranheim. Wood pulp. Dept. H 109
26. Skien Cellulosefabrik, Skien. Wood pulp. Dept. H 109
27. Skotselv Cellulosefabrik, Skotselven. Wood pulp. Dept. H 109
28. Thams, M., & Co., Trondhjem. Timber for house-building purposes. Norway's pavilion 99

SPAIN.

GROUP 1.

1. Agricultural Society, Valls. Corn. 2
2. Alonso del Moral, Vicente, Salamanca.
a Summer, red and winter wheat. 1
b Oats. 3
c Barley. 4
d Rye. 5
3. Arribas, Felipe, Villar de Domingo Garcia. Dry summer wheat. 1
4. Blanco Sanchez, Manuel, Salamanca. Summer wheat. 1
5. Calderon e Hijo, Valentin, Palencia. Wheat flour. 11
6. Coll de Baldrich, Juan Ramon, Valls. Corn. 2

7. Fernandez de la Devesa, Clemente, Salamanca.
a Wheat. 1
b Rye. 5
8. Fernandez e Hijos, Viuda de L, Medina del Campo.
a Wheat. 1
b Barley. 4
c Rye. 5
9. Fernandez y Cosmen, Victoriano, Los Navalmorales. Wheat. 1
10. Foronda y Mandillo, Pedro de, Santa Cruz de Tenerife. Wheat flour. 11
11. Garcia, Diego, Guadalajara. Summer wheat. 1

SPAIN.

12. Giraldo Crespo, Eusebio, Medina del Campo.
a Wheat. 1
b Barley. 4
c Rye. 5
13. Hernandez, Saturio, Buitrago.
a Wheat. 1
b Barley. 4
14. Huerta Martinez, Joaquin, Albacete. Summer wheat. 1
15. Humanes Combelo, Julian, Lominchar. Wheat. 1
16. Ibanez, Angel, Mira. Corn. 2
17. Jaramilla y Ruiz de Alarcon, Juan Jose, Carrascosa del Campo. Summer wheat. 1
18. Magrina de Lopez, Mariano, Villalonga. Corn. 2
19. Mangrane e Hijos de Guix, Tarragona. Wheat flour, cracked wheat, cleaned wheat. 11
20. Martinez Baldo, Domingo, Villa Mediana. Barley. 4
21. Masso Tebar, Natalio, Albacete. Wheat. 1
22. Neira, Juan Bautista, Cerezal. Hay. 8
23. Parras, Enrique, Albacete. Wheat. 1
24. Penalver, Eustaquio, Chillaron de Cuenca. Barley. 4
25. Pinango, Nemesio, Albacete.
a Wheat. 1
b Corn. 2
26. Ramirez, Alonso, Albacete. Hard wheat. 1
27. Riaseco, Village of, Soria. Wheat. 1
28. Serrano, Felix, Sajazarra.
a Wheat. 1
b Corn. 2
c Barley. 4
29. Soria Local Commission, Soria.
a Wheat. 1
b Oats. 3
30. Uluargui y Ochoa, Eusebio, Logrono.
a Wheat. 1
b Corn. 2
c Oats. 3
d Barley. 4
31. Villanueva y Canedo, Luis, Badajoz. Wheat. 1

GROUP 2.

32. Castello y Vila, Francisco, Arenys de Mar. Soup pastes. 15
33. Clot, Juan J., Madrid. Soup pastes. 15
34. Fidalgo Perez, Gregorio, Badajoz. Cakes. 13
35. Foronda y Mandillo, Pedro de, Santa Cruz de Tenerife. Arrow-root. 16
36. Ladoyer y Metge, San Pedro de Premia. Tapioca. 16
37. Marco Soriano, Juan, Villena. Crackers. 14
38. Mirat e Hijo, Salamanca.
a Soup pastes. 15
b Wheat and rice starch. 16

GROUP 3.

39. Diaz, Gallo, Cardenete. Honey. 26
40. Ferrer y Gili, J., Barcelona. Fruit confections, etc. 27
41. Foronda y Mandillo, Pedro de, Santa Cruz de Tenerife. Honey. 26
42. Garcia Luque, Mariano, Toledo. Confections. 27

43. Marco Soriano, Juan, Villena. Confections. 27
44. Mira Espi, Luis, Gijona. Confectionery. 27
45. Monserrat y Hijo, Juan, Reus. Confectionery. 27
46. Puzzini Hermanos, Cordova. Syrup of orange flowers. 18
47. Segovia, Julian, Carrascosa de la Sierra. Honey. 26
48. Velasco Barba, Jose de, Almendralejo. Confectionery. 27

GROUP 4.

49. Berlanga de Duero, Village of, Soria. Potatoes. 28
50. Lober, Town of, Lugo.
a Potatoes. 28
b Beets. 29

GROUP 5.

51. Alemany Gil, S., Tarragona. Vetches. 32
52. Alonso del Moral, Vicente, Salamanca. Chick peas and vetches. 32
53. Bello y Gil, Jose, Logrono. Chick peas and French beans. 32
54. Fernandez de la Devesa, Clemente, Medina del Campo. Chick peas and vetches. 32
55. Fernandez e Hijos, Viuda de L, Medina del Campo. Chick peas and vetches. 32
56. Giraldo Crespo, Eusebio, Medina del Campo. Chick peas. 32
57. Magrina de Lopez, Mariano, Villalonga. Red vetches. 32
58. Magrina y Suner, Antonio de, Tarragona. Vetches. 32
59. Marin Casales, Eduardo, Valencia. Vetches. 32
60. Mirat e Hijo, Salamanca. Chick peas. 32
61. Orovio, Manuel de, Tarragona. Vetches. 32
62. Querol y Bofarull, Fernando de, Tarragona. Vetches. 32
63. Satorr As y Villanova, Antonio, Tarragona. Vetches. 32
64. Serrano, Felix, Sajazarra. Beans. 32
65. Uluargui y Ochoa, Eusebio, Logrono. Beans. 32
66. Villanueva y Canedo, Luis, Badajoz. Chick peas. 32

GROUP 6.

67. Caamano y Compania, J., Coruna. Canned meats, etc. 36
68. Flores Sauret, Benito, Garrovillas de Alcovetar. Sausages. 37
69. Goday, Juan, Villanueva de Arosa. Sardines, etc. 36
70. Ladoyer y Metge, San Pedro de Premia. Anchovies. 36
71. Lober, Town of, Lugo. Hams. 34
72. Puig y Llagostera, Francisco, Barcelona. Anchovies. 36

GROUP 7.

73. Fernandez Rodriguez, Jacinto, Villarrobledo. Cheese. 34
74. Garcia y Garcia, Manuel, Cerezal. Butter. 42
75. Neira, Juan Bautista, Cerezal. Cheese. 43
76. Villalba, Town of, Lugo. Cheese. 43

DEPARTMENT A.—AGRICULTURE.

GROUP 8.

77. Aguirre e Hijos, Isidro, Munilla. Chocolate. 45
 78. Alique, Adrian, Portairubio. Saffron and anise. 47
 79. Casado Rodriguez, Fabian, Coruna. Chocolate. 45
 80. Castella, Francisco, Barcelona. Chocolate. 45
 81. Cayuela y Ramon, Jose, Murcia. Ground pepper. 47
 82. Deza, Town of, Soria. Anise. 47
 83. Diez Ubago, Placido, Cuzcurrita. Chocolate. 45
 84. Enciso Ruiz, Hijos de Francisco, Munilla. Chocolate. 45
 85. Fernandez, Francisco, Lugo. Chocolate. 45
 86. Fernandez, Lorenzo, Albacete. Saffron. 47
 87. Fernandez Rodriguez, Jacinto, Villarrobledo. Saffron. 47
 88. Foronda y Mandillo, Pedro de, Santa Cruz de Tenerife. Coffee. 45
 89. Garcia Fernandez, Jeronimo, Medina del Campo. Chocolate. 45
 90. Garcia Luque, Mariano, Toledo. Chocolate. 45
 91. Lujan y Tendero, Tomas, Motilla del Palancar. Saffron. 47
 92. Martinez, Viuda de Pedro, Albacete. Saffron. 47
 93. Nicolau Hermanos, Albacete. Saffron. 47
 94. Porcar y Tio, Manuel, Barcelona. Ground sweet pepper. 47
 95. Ramos Beltran, David, Chercoles. Saffron. 47
 96. Rubini e Hijos, Coruna. Chocolate. 45
 97. Ruiz, Jeronimo, Murcia. Ground pepper. 74
 98. Saenz, Viuda de Laureano, Munilla. Chocolate. 45
 99. Serra y Cuberta, Antonio. Chocolate. 45
 100. Solana, Hijos de Norberto, Munilla. Chocolate. 45
 101. Valtuena, Town of, Soria. Saffron. 47
 102. Velasco Barba, Jose de, Almendralejo. Chocolate. 45
 103. Villalba, Sixto, Tarragona. Anise and cummin. 47

GROUP 9.

104. Capdevila y Marin., Ramon, Cieza. Esparto. 59
 105. Foronda y Mandillo, Pedro de, Santa Cruz de Tenerife. Pita fibre. 59
 106. Gomez Rodulfo, Hijos de Jeronimo, Bejar. Wool. 60
 107. Martinez e Hijos, Hellin. Esparto. 59
 108. Ortega Saenz Diente, Cuenca. Wool. 60
 109. Parras, Enrique, Albacete. Esparto. 59
 110. Perales, Marques de, Madrid. Wool. 60
 111. Precioso Roche, Jose, Hellin. Esparto. 59
 112. Soria Local Commission, Soria.
 a Hemp. 59
 b Wool. 60

113. Torre y Andres, Miguel, de la, Badajoz. Ramie. 59
 114. Villanueva y Canedo, Badajoz. Wool. 60

GROUP 10.

115. Agreda, Town of, Soria. Sulphuretted waters. 64
 116. Arive, Baths of, Arive. Mineral water. 64
 117. Avenoso, Mariano Andres, Madrid. "Nuevas Salinetas" mineral water. 64
 118. Banos, Town of, Caceres. Sulphuretted saline water and sediment. 64
 119. Belascoain, Baths of, Belascoain. Mineral water. 64
 120. Calderon y Revuelta, Alceda. Sulphuretted water. 64
 121. Cano y Compania, Juan, Vitoria. Mineral water. 64
 122. Carrillo y Rodriguez, Juan, Ocana. Mineral water. 64
 123. Cervello y Chinesta, Elias, Cordova. Chalybeate water. 64
 124. Collazo, Emilio, Lugo. Chalybeate water. 64
 125. Cortadellas, Jaime, Madrid. Saline water. 64
 126. Fontagud Gargollo, Jose, Madrid. Mineral water. 64
 127. Garcia Fernandez, Julio, Palas de Ray. Mineral water. 64
 128. Garrido y Garrido, Castor, Vigo. Mineral water. 64
 129. Goicoechea, Fermin, Pamplona. Mineral water. 64
 130. Higuera y Compania, H., Gerona. Mineral water. 64
 131. Leon y Llerena, Eduardo, Madrid. Mineral water. 64
 132. Lopez Salazar y Hernandez Moreno, Ciudad Real. Mineral water. 64
 133. Llata Rosillo, Manuel, Santander. Mineral water. 64
 134. Madirolas y Codina., Ramon. Manlleu. Mineral water. 64
 135. Martinez Aragon, Hilario, y Crespo, Justo, Vinuesa. Chalybeate water. 64
 136. Martorell, Francisco, Calella, Mineral water. 64
 137. Mestre Roig, Luis, Grove. Mineral water. 64
 138. Munoz y del Castillo, Angel Manuel, Madrid. Mineral water. 64
 139. Porcar y Tio, Manuel, Barcelona. Mineral water. 64
 140. Salmeron Amat, Jose, La Carolina. Mineral water. 64
 141. Suellacabras, Town of, Soria. Sulphur water. 64
 142. Vera y Garcia, Jose Maria, Mazarron. Mineral water. 64
 143. Villarijos, Town of, Soria. Sulphur and chalybeate water. 64

GROUP 11.

144. Abadia, Luis, Allo. Vinegar. 71
 145. Agricultural Society, Igualada.
 a Anise alcohol and pure alcohol. 68
 b Liqueurs. 69
 146. Agricultural Society, Valls. Sweet anisette and dry anisette. 69

SPAIN.

147. Alberola, Rafael, Cuatretonda.
a Alcohol. 68
b Imperial anise. 69
148. Alfonso y Pastor, Juan Bautista, Castellon. Aromatic liqueur. 69
149. Amorós, Cristóbal, Villena. Alcohol. 68
150. Aoiz, Manuel, Arroniz. Vinegar. 71
151. Arbeloa, Pablo, Dicastilli. Vinegar. 71
152. Armendariz, Eduardo, Munizabal. Vinegar. 71
153. Armendariz, Francisco, Falces. Vinegar. 71
154. Arquínano, Pablo, Estella. Anisettes. 69
155. Beltran y Ibañez, Adolfo, Albacete. Alcohol of 97 degrees. 68
156. Bernal y Garcia, Lorenzo, Valladolid. Liqueurs and extract of anise. 69
157. Bosch y Vietti, Martin, Barcelona. Vermouth. 70
158. Boyer y Compania, C., Pasajes. Vermouth. 70
159. Buhler y Auge Issanjou, I. C., Daimiel. Vermouth. 70
160. Camara y Argueso, Marcial de la, Valenzuela. "Spanish" cognac. 69
161. Cia, Gumersindo, Mañeru. Vinegar. 71
162. Cima y Garcia, Jose, Oviedo. Cider. 71
163. Coll de Baldrich, Juan Ramon, Valls. Vinegar. 71
164. Corbera y Hijo, Figueras. Anisettes. 69
165. Cuesta, Gil de la, Briones. Cognac and anisette. 69
166. Diaz y Gomez, Fermin, Jaca. Anisette. 69
167. Diaz Salazar y Compania, Haro. Alcohol. 68
168. Domech y Compania, B. L., Santander. Liqueurs, extracts of anise and rum, Chartreuse, etc. 69
169. Domenech Aguilera, Vicente, San Andres de Palomar. Cordial "Domenech," cognac and oriental anise. 69
170. Erice, Antonio, Pamplona. Cider. 71
171. Escat y Compania, Barcelona. Curacao, Benedictine and other liqueurs. 69
172. Escribano Mayo, Jose Francisco, Vinaroz. Vinegar. 71
173. Eslava, Jose, Valtierra. Vinegar. 71
174. Eslava, Rufino, Valtierra. Vinegar. 71
175. Esteban, Dionisio, Fustiñana. Vinegar. 71
176. Esteller Pruñonosa, Manuel, Vinaroz. Orange wine. 69
177. Farreras y Chapellier, San Martin de Provensals. Liqueurs, Benedictine, rose, cognac, anise and grog. 69
178. Farres Jaumandreu, Antonio, San Cugat del Valles. Vinegar. 71
179. Fernandez de Soria, Fernando, Villafranca de los Barros.
a Alcohol. 68
b Vinegar. 71
180. Figueroa de Battistini, Dolores, Madrid. Vinegar. 71
181. Flos y Miralles, Rafael. San Martin de Provensals. Chartreuse and Curacao, imitation. 69
182. Galvete, Francisco, Ciga. Cider. 71
183. Garcia Castilla, Raimundo, Burgos. Vinegars. 71
184. Garcia, Cecilio, Corella. Alcohols. 68
185. Garcia, Diego, Guadalajara. Vinegar. 71
186. Garcia Fernandez, Jeronimo. Medina de Campo. Vinegar. 71
187. Gil Hernandez, Esteban, Neva del Rey. Vinegar. 71
188. Gispert y Pujols, Manuel, Barcelona. Vinegar. 71
189. Gracia Ortiz y Hermanosi, Felix, Villarrobledo. Vinegars. 71
190. Gracia Poveda, Luis, Villena. Alcohols. 68
191. Guillén, Ricardo y Girones, Agustin, Villena. Alcohol. 68
192. Guaiqui, Conde de, Andion. Cordial, anise and triple anise. 69
193. Hernandez Gabaldón, Juan, Villena. Alcohol. 68
194. Hernandez Hurtrdo, Francisco, Villena. Alcohol. 68
195. Hurtado, Andrés, Villena. Alcohol and aromatic alcohol. 68
196. Hurtado y Hurtado, Villena.
a Alcohol. 68
b Liqueur of nuts. 69
197. Ladoyer y Metge, San Pedro de Premia. Vinegar. 71
198. Lpez Ramos, Vincente, Valencia. Alcohol. 68
199. Machó Mesones, Francisco, Rueda. Vinegar. 71
200. Magriña y Suñer, Antonio de, Tarragona. Vinegar. 71
201. Masso Tebar, Javier, Albacete. Zurracapote. 69
202. Mercader Menages, P., Barcelona. Vermouth. 70
203. Migueloa, Lizabe y Compania, Zaragoza. Alcohol. 68
204. Milan Navarro, Bartolome, Villena. Alcohol. 68
205. Molou Mier, Juan, Medina del Campo. Vinegar. 71
206. Monistrol, Marques de, Madrid. Cognac. 69
207. Monzó Hermanos, Albaida. Alcohol. 68
208. Morera, Avelino, Tarragona. Anisette. 69
209. Montfort, Carlos, Barcelona. "Montfort" rum. 67
210. Muñoz y Cardenas, Claudio E., Gijon. Champagne cider. 71
211. Obanos, Town of, Navarra. Vinegar. 71
212. Oteiza, Felipe, Navarrete. Cider. 71
213. Palacio y Palacio, Antonio, Zaragoza. Anisette "Palacio." 69
214. Palacios, Siro y Luis, Valdepeñas. Alcohol. 68
215. Parera, Juan, Zaragoza. Liqueur, anise and hygienic cordial. 69
216. Pascual, Hijos de, Madrid. Rum. 67
217. Parera y Volast, Felipe, Granollers.
a Rum. 69
b Extract of anise and cognac "Parera." 67
218. Pastor, Jose Antonio, Villena. Alcohol. 68

DEPARTMENT A.—AGRICULTURE.

219. Pey y Mallol, Paulino, Figueras. Rum. 67
220. Pimentel y Hermanos, J., Rueda. Vinegar. 71
221. Pi Montllo, Antonio, Falset. Vermouth and anise. 70
222. Planters' Association, Chinchon. Alcohol. 68
223. Pomes, Viuda de Pablo, Bilbac. Vermouth, bitter and anisette. 70
224. Pons y Cerda, Francisco, Valencia. Alcohol. 68
225. Prat, Saturnino, Manresa. Alcohol. 68
226. Puig y Llagostera, Francisco, Barcelona. Vinegar. 71
227. Pujol, Joaquin y Eduardo, Sans. Anise "Espanol." 69
228. Quecuty Ponce de Leon, Enrique, Chiclana de la Frontera. Alcohol. 68
229. Quesada, Juan, Arganda. Vinegar. 71
230. Ruiz, Antonio, Villafranca. Anisette. 69
231. Salvado, Hermanos, Barcelona. Vinegar. 71
232. Salvo, Paula, Carcastillo. Vinegar. 71
233. Sanchis, Jose Maria, Muniain. Vinegar. 71
234. Sans Bori, Sebastian, Sitges. Liqueurs. 69
235. Sanz Espeso, Donato, La Seca. Vinegar. 71
236. Torre y Bordons, Ramon de la, San Gervasio de Cassolas. Anisette "Tentacion." 69
237. Torres y Castells, Jose, Barcelona. "Quina Momo" liqueur. 69
238. Trincado, Miguel, Lodosa. Vinegar. 71
239. Valle, Ballina y Fernandez, Villaviciosa. Champagne cider. 71
240. Valles Allue, Antonio, Bandalies. Vinegar. 71
241. Vallejo, Luis, Peralta. Vinegar. 71
242. Vano Hermanos, Valencia. Alcohol. 68
243. Velasco Barba, Jose de, Almendralejo. Alcohol. 68
244. Vidal y Hermano, Casimiro, Vendrell. Liqueurs, assorted. 69
245. Vila Bassa, Juan, Tarragona. Vinegar. 71
- GROUP 12.**
246. Damm y Compania, Barcelona. "Golondrina" beer and "bock" beer. 73
247. Matossi, Fanconi y Compania, Santander. Export beer. 73
- GROUP 15.**
248. Llorente y Arregui, Aniceto, Burgos. Work on agriculture. 83
249. Magrina y Suner, Antonio de, Tarragona. Work on agriculture. 83
250. Ortiz de Canavate, Fernando, Madrid. Works on silkworm culture and on cheese and butter making. 83
251. Sala y Carrera, Esteban, Tarragona. Works on agriculture. 83
- GROUP 18.**
252. Agricultural Society, Igualada. Olive oil. 95
253. Alcate Azcoitia, Casiano, Logrono. Olive oil. 95
254. Alfaro, Manuel Maria, Fitero. Olive oil. 95
255. Alemany Gil, S., Tarragona. Olive oil. 95
256. Alique, Adrian, Portalrubio. Olive oil. 95
257. Almudevar, Francisca, Huesca. Olive oil. 95
258. Amoros, Cristobal, Villena. Olive oil. 95
259. Anton Fernandiz, Francisco, Mutchamil. Olive oil. 95
260. Arbeloa, Pedro, Dicastillo. Olive oil. 95
261. Arjona, Viuda de Rafeal, Navarrete. Olive oil. 95
262. Barbera Falco, Jose, Valencia. Olive oil. 95
263. Bellod, Martin, Villena. Olive oil. 95
264. Benjumea, Fernando y Jose Maria, Puebla de Cazalla. Olive oil. 95
265. Bernis, Francisco de, Sevilla. Olive oil. 95
266. Borja, Town of, Zaragoza. Olive oil. 95
267. Briones y Briones, Jose Maria, Navarrete. Olive oil. 95
268. Cano y Fernandez, Minguel, Murcia. Olive oil. 95
269. Casciaro y Lobato, Pedro, Cartagena. Olive oil. 95
270. Civera y Mas, Jose Maria, Palma de Mallorca. Olive oil. 95
271. Coll de Baldrich, Juan Ramon, Valls. Olive oil. 95
272. Conill Hermanos, Barcelona. Olive oil. 95
273. Dominguez de la Plomera, Tomas, Navarrete. Olive oil. 95
274. Escribano Mayo, Jose Francisco Vinaroz. Olive oil. 95
275. Eslava, Rufino, Valtierra. Olive oil. 95
276. Estados, Conde de, Santisteban del Puerto. Olive oil. 95
277. Esteller Prunonosa, Manuel, Vinaroz. Olive oil. 95
278. Estelles Gadea, Gerardo, Valencia. Olive oil. 95
279. Fernandez de Navarrete, Cristino, Vitoria. Olive oil. 95
280. Fernandez y Cosmen, Victoriano, Los Navalmorales. Olive oil. 95
281. Ferrete Soronellas, Javier, Selva del Campo. Olive oil. 95
282. Fontcuberta y de Perramont, Trinidad de. Olive oil. 95
283. Foronda y Mandillo, Pedro de, Santa Cruz de Tenerife. Wax. 97
284. Garcia, Diego, Guadalajara. Olive oil. 95
285. Gispert y Pujals, Manuel, Barcelona. Olive oil. 95
286. Gomez de la Lama, Luis, Sevilla. Olive oil. 95
287. Grana e Hijos, Enrique, Malaga. Olive oil. 95
288. Grau Montane, Jose, Ruidoms. Olive oil. 95
289. Guel y Vilata, Antonio, Olesa de Montserrat. Olive oil. 95
290. Hortal Escribano, Ignacio, Salamanca. Olive oil. 95

SPAIN.

291. Huguet, Prudencio, Ablitas. Olive oil. 95	321. Paredes Guillen, Vicente, Plasencia. Olive oil. 95
292. Ibanez de Lara, Luis, Valencia. Olive oil. 95	322. Parras, Enrique, Albacete. Olive oil. 95
293. Iglesias y Nadal, Jose, Albages. Olive oil. 95	323. Pascual de Bonanza, Luis Cruz, Elche. Olive oil. 95
294. Isasa y Valseca, Santos de, Madrid. Olive oil. 95	324. Paul, Manuel de, Huevar. Olive oil. 95
295. Isern, Casas y Bordas, Sevilla. Olive oil. 95	325. Paya Santonja, Miguel, Villena. Olive oil. 95
296. Jimenez, Babil, Tafalla. Olive oil. 95	326. Peyra y Mach, Hijos de, Barcelona. Olive oil. 95
297. Lopez y Lopez, Pascasio, Villena. Olive oil. 95	327. Porcar y Tio, Manuel, Barcelona. Olive oil. 95
298. Magrina de Lopez, Mariano, Villalonga. Olive oil. 95	328. Priego, Tomas, Priego. Olive oil. 95
299. Magrina y Suner, Antonio de, Tarragona. Olive oil. 95	329. Puig y Llagostera, Francisco, Barcelona. Olive oil. 95
300. Mangado, Andres, Falces. Olive oil. 95	330. Pujol, Hermanos y Compania, Ramon, Lerida. Olive oil. 95
301. Marimon y Lloret, Francisco, Esparraguera. Olive oil. 95	331. Querol y Bofarull, Fernando de, Tarragona. Olive oil. 95
302. Marin Casals, Eduardo, Valencia. Olive oil. 95	332. Ramirez Ortiz, Felix. Olive oil. 95
303. Martin, Manuel, Cascante. Olive oil. 95	333. Reguer, Marques del, Palma de Mallorca. Olive oil. 95
304. Matheu Sabater, Juan, Tarragona. Olive oil. 95	334. Ribot Volla, Baudilio, Tarragona. Olive oil. 95
305. Medrano, Pedro N., Fitero. Olive oil. 95	335. Ripa, Eugenio, Aberin. Olive oil. 95
306. Mendez, Felipe, Mairena del Alcor. Olive oil. 95	336. Rius, Conde de, Tarragona. Olive oil. 95
307. Miguel, Juan de, Tudela. Olive oil. 95	337. Romero de la Torre, Bartolome, Cordoba. Olive oil. 95
308. Mira Paya, Francisco, Pinoso. Olive oil. 95	338. Romeo, Leopoldo, Cintruenigo. Olive oil. 95
309. Morales, Viuda de, Monteagudo. Olive oil. 95	339. Ruiz Ochogavia, Bruno, Villamediana. Olive oil. 95
310. Morcillo y Garcia, Jose, Carrabanchel. Soap and a soap statue. 96	340. Salanueva, Filoteo, Arroniz. Olive oil. 95
311. Moreno Mazon e Hijos, Trinidad, Madrid. Olive oil. 95	341. Salmeron, Jose, La Carolina. Olive oil. 95
312. Mur, Jose, Salas Altas. Olive oil. 95	342. Salvado, Hermanos, Barcelona. Olive oil. 95
313. Murrieta y Garcia, Luciano, Logrono. Olive oil. 95	343. San Adrian, Marques de, Monteagudo. Olive oil. 95
314. Navascues, Ramon, Cintruenigo. Olive oil. 95	344. Sanchis, Jose Maria, Muniain. Olive oil. 95
315. Naya Buil, Miguel, Liesa. Olive oil. 95	345. Sevil Hermanos y Compania, Tarragona. Olive oil. 95
316. Obanos, Town of, Navarra. Olive oil. 95	346. Sigues, Jose Maria, Cintruenigo. Olive oil. 95
317. Oliag, Vicente, Valencia. Olive oil. 95	347. Torre, Baronesa de la, Cintruenigo. Olive oil. 95
318. Orovio, Manuel de, Tarragona. Olive oil. 95	348. Torella y Font., Magin, Olesa de Montserrat. Olive oil. 95
319. Palop Aparicio, Jose Antonio, Ronda. Olive oil. 95	349. Vila Bassa, Juan, Tarragona. Olive oil. 95
320. Palou y Barbarin, Miguel, Palma de Mallorca. Olive oil. 95	350. Vilches, Joaquina, Valtierra. Olive oil. 95
	351. Vives y Colom, Antonio, Deya. Olive oil. 95

SWEDEN.

GROUP 1.

- | | |
|----------------------------------|---|
| 1. Paykull, Gustaf von, Knifsta. | 5 |
| <i>a</i> Rye. | 9 |
| <i>b</i> Clover seeds. | |

GROUP 2.

- | | |
|---------------------------------------|----|
| 2. Chrysander, J., & Co., Göthenburg. | 13 |
| Pastry. | |

GROUP 3.

- | | |
|---------------------------------------|----|
| 3. Chrysander, J., & Co., Göthenburg. | 27 |
| Confections. | |

GROUP 6.

- | | |
|------------------------------------|----|
| 4. Kulberg, G., & Co., Göthenburg. | 36 |
| Caviar; preserved craw-fish tails. | |
| 5. Langstrom, Herman, Stockholm. | 36 |
| Anchovy and canned herring. | |

DEPARTMENT A.—AGRICULTURE.

GROUP 11.	
6. Lindros & Co., Stockholm. Sauce, catsup, bouillon, etc.	37
7. Lysell, Aug., Lysekil. Oysters, herring and anchovy.	36
8. Ohlsson, Carl & Hansson, Göthenburg.	
<i>a</i> Herring, anchovy, fish-balls.	36
<i>b</i> Pudding.	37
9. Winborg, Th., & Co., Stockholm. Sauces.	37
GROUP 7.	
10. Aktiebolaget Radiator, Stockholm. Cream and butter extractor. 34-D-B	44
11. Barnekows S. Tekn. Kem. Laboratorium, Matmo. Extract of cheese rennet.	43
12. Stockmula, Dingtuna. Cheese.	43
13. Surahammars Bruks Aktiebolag, Surahammar. Milk separators and butter extractors. Dept. H	44
14. Tofverums Mejeri, Wimmerby. Cheese.	43
15. Wedholm, C. A., Nyköping. Milk cans, cheese-frames, milk-strainers.	44
GROUP 8.	
16. Winborg, Th., & Co., Stockholm.	
<i>a</i> Cocoa, coffee substitute. Sec. 8	45
<i>b</i> Mustard.	47
GROUP 11.	
17. Bagge, Axel, & Co., Göthenburg. Arrac punch.	70
18. Cederlunds, Söner J., Stockholm. Punch.	70
19. Helleberg, A. L., & Son, Stockholm. Punch.	70
20. Liljeholmen's Vinfabrik, Stockholm. Punch.	70
21. Lindgren, C. A., & Co., Stockholm. Punch.	70
22. Lundberg, J. L., & Co., Stockholm. Punch.	70
23. Winborg, Th., & Co., Stockholm. Vinegar. Sec. 8	71
GROUP 16.	
24. Aktiebolaget Palmerantz, Stockholm. Harvest machines.	86
25. Sundgren, Olof, Östersund. Centrifugal winnower.	87
26. Svalling, G. V., & Co., Molntorp. Scythes.	86
GROUP 17.	
27. Nystrom, R. & H., Göthenburg. Guano and fodder.	92

SWITZERLAND.

GROUP 7.	
1. Société de la Farine Lactée, Vevey.	
<i>a</i> Milk.	41
<i>b</i> Butter.	42
<i>c</i> Cheese.	43
GROUP 8.	
2. Kohler, Amédée, & fils, Lansanne. Chocolate.	45
3. Russ-Suchard & Co., Neuchatel-Serrières. Chocolate.	45
GROUP 11.	
4. Dennler's Wittwe, Aug. F., Interlaken. Liquors, bitters.	70
5. Pernod, Edouard, Couvet. Absinthe.	70
6. Zuger Kirschwasser Gesellschaft, Zug. Liquors.	70
GROUP 12.	
7. Hurlimann, Enge-Zurich. Beers	73

URUGUAY.

GROUP 1.	
1. Arrarte, Antonio. Wheat flour.	11
2. Barreto, Quintin. Saldome grain.	7
3. Ciocca, Jose A. Wheat.	1
4. Crosa, Tomas. Wheat.	1
5. Delucchi, C., & Son. Grain.	
6. Exposition Committee. Collective exhibit of cereals.	
7. Gonzales, Jacinto. Saldome grain.	7
8. Great Oriental Distillery.	
<i>a</i> Wheat.	1
<i>b</i> Maize.	2
<i>c</i> Barley.	4
9. Hermanos, Pillargat. Alfalfa hay.	9
10. Larranaga, Jose. Wheat flour.	11
11. Longuas, Luis, Lerena.	
<i>a</i> Barley.	4
<i>b</i> Rye.	5
<i>c</i> Grain.	7
12. Maglioni, Vincente. Wheat.	1
13. Montanelli, Jose. Wheat flour.	11
14. Mula, Jose Angel.	
<i>a</i> Barley.	4
<i>b</i> Native furze and alfalfa seeds.	8
15. Perey, Ercoguel. Wheat.	1
16. Perez, Meliton. Wheat.	1
17. Santos, Feliciano. Wheat.	1
18. Santos, Garcia & Co. Grain.	
19. Sienra, Ricardo. Wheat.	1
GROUP 2.	
20. Anselmo, Carlos. Biscuits.	14
GROUP 3.	
21. Demarco & Miret. Bon Bons.	27
GROUP 6.	
22. Exposition Committee. Products of Saladero establishment.	36
23. Frank, Jose. Sterilized milk.	39

URUGUAY.

- | | |
|---|---|
| <p>24. Garcia, Villemir & Valdej.
 <i>a</i> Preserved meat. 37
 <i>b</i> Liquid extract of beef. 39
 25. Genta, Juan. Meat preparations. 37
 26. Liebig's Extract of Beef Co., Troy Benton.
 <i>a</i> Ox tongues. 36
 <i>b</i> Meat meal for feeding. 37
 <i>c</i> Extract of beef.
 27. Peila, Juan. Sausages. 37</p> <p style="text-align: center;">GROUP 7.</p> <p>28. Commission of Exposition. Cheese. 43</p> <p style="text-align: center;">GROUP 8.</p> <p>29. Genta, Juan. Chocolate pastelles, cocoa cosmetic and vinegar of cocoa. 45
 30. Illa, Jose, & Font. Chocolate. 45
 31. Martorell, Antonio. Chocolate, cocoa and coffee. 45
 32. Sierra, Miguel. Tobacco. 48</p> <p style="text-align: center;">GROUP 9.</p> <p>33. Acorta, Augusto, & Lara. Wool fleeces. 60
 34. Amy, Enrique. Wool fleeces. 60
 35. Badaberry, Santiago. Wool fleeces and wool. 60
 36. Barreto, F. L. Wool fleeces. 60
 37. Bergbeder Peyre, Pedro. Rambouillet and Devon fleece wool. 60
 38. Bidart, Miguel. Wool fleeces. 60
 39. Bridger, Roberto. Wool fleeces. 60
 40. Buxcares, Felix. Wool fleeces. 60
 41. Cartellanos, Jose M. Wool fleeces. 60
 42. Cardona, B., Miguel. Wool fleeces. 60
 43. Cardona, Jose L. Wool fleeces. 60
 44. Carreras, Juan C. Wool fleeces. 60
 45. Cartellanos, Federico. Wool fleeces. 60
 46. Cortaberria, Santiago. Wool fleeces. 60
 47. Castro, Pedro. Wool fleeces. 60
 48. Chilinchavide, Domingo. Wool fleeces. 60
 49. Covod, Jorje. Wool fleeces. 60
 50. Echegojen, Juan P. Wool fleeces. 60
 51. Erguin, Matias, & Furwelles. Wool fleeces. 60
 52. Erro, Julian. Wool fleeces. 60
 53. Etchegeimberry, D. Wool fleeces. 60
 54. Fitz Herbert, A. Wool fleeces. 60
 55. Fideman, Hugo. Wool fleeces. 60
 56. Genta & Hambiague. Wool fleeces. 60
 57. Harrison, S. P. Wool fleeces. 60
 58. Herbert, A., Fitz. Wool fleeces. 60
 59. Hughes, Conrado. Wool fleeces. 60
 60. Iguaron Sons. Wool fleeces. 60
 61. Iriarte, Genta, & Co. Wool fleeces. 60
 62. Jobsen, Augusto. Wool fleeces. 60
 63. Lapaz, Geronimo. Wool fleeces. 60
 64. Lares, Wenceslao. Ramie. 59
 65. Lema, Ignacio. Wool fleeces. 60
 66. Martiny, Benjamin. Wool. 60
 67. Mascimo & Ricardo Sons. Fleece wool. 60
 68. Mendez, Angel R. Wool fleeces. 60
 69. Mendez, Ruperto. Wool fleeces. 60
 70. Merklen, Dionisio. Wool. 60
 71. Molins, Jaime. Wool fleeces. 60</p> | <p>72. Molinhy, Jaime & Aeosta. Wool fleece. 60
 73. Narabal & Maisterra. Wool fleeces. 60
 74. Ordoncena Domingo. Wool fleeces. 60
 75. Otegui, Juan C. Wool fleeces. 60
 76. Pereira, Faustino. Wool fleeces. 60
 77. Perez, Juan M. Wool fleeces. 60
 78. Peyre, Pedro B. Wool. 60
 79. Ramon, Anaotasio. Wool fleeces. 60
 80. Rocha, Government of. Husk of fatu. 59
 81. Roosen, German. Wool fleeces. 60
 82. Rodriguez, Juan. Wool fleeces. 60
 83. Riviere, Julio. Wool fleeces. 60
 84. Soane, Guillermo. Wool fleeces. 60
 85. Stirling, Manuel. Lincoln and merino fleece wool. 60
 86. Sturregui, Fermin. Wool fleeces. 60
 87. Tienra, Amaro. Wool fleeces. 60
 88. Uriaste, Marcelino. Wool fleeces. 60
 89. Uriorte, Santos L. Wool fleeces. 60
 90. Urtubey, Tagnacio. Wool fleeces. 60
 91. Warburen, Joaquin. Wool fleeces. 60
 92. Young, Diego. Wool fleeces. 60
 93. Zanzi, Luis. Silk in cocoons. 61</p> <p style="text-align: center;">GROUP 10.</p> <p>94. Monjani, Aguiles. Mineral water. 64</p> <p style="text-align: center;">GROUP 11.</p> <p>95. Bonati, L. Preti. Vermouth. 69
 96. Carballo, Jose, Sons. Liqueurs. 69
 97. De Leon, Pedro. Vinegar. 71
 98. Gameroni, Antonio.
 <i>a</i> Whisky. 66
 <i>b</i> Rum, gin and liqueurs. 67
 <i>c</i> Kirschwasser, Vermouth, etc. 70
 99. Great Oriental Distillery. Alcohol. 68
 100. Lataillade, Juan. Liqueurs. 69
 101. Martins Sons. Cherry bounce. 70
 102. Morini, Hermenejildo & Co. Vermouth and bitters. 70
 103. Ochoa, V. Vermouth. 70
 104. San Roman, Francisco. Bitters. 70
 105. Vidiella, Federico R. Vinegar. 71</p> <p style="text-align: center;">GROUP 12.</p> <p>106. Montevideo Brewery. Beer. 73
 107. Ucltschi & Co. Beer. 73</p> <p style="text-align: center;">GROUP 13.</p> <p>108. Great Oriental Distillery. Plan of the distillery. 76</p> <p style="text-align: center;">GROUP 16.</p> <p>109. Errasguin, Francisco V. Model of oxen shackles. 88</p> <p style="text-align: center;">GROUP 17.</p> <p>110. Buxareo, Felix. Horses' tails. 90
 111. Garcia, Villermur & Valdej. Guano. 92
 112. Liebig's Extract of Meat Co., Ltd. Fertilizers and bone meal. 92</p> <p style="text-align: center;">GROUP 18.</p> <p>113. Eirin Bros. Wax and candles. 97
 114. Liebig's Extract of Meat Co., Ltd., Fray Bentos. Tallow; refined fat. 94
 115. Ordeiz, Jose. Olive oil. 95
 116. Peila, Juan. Fats and lard oil. 94</p> |
|---|---|

DEPARTMENT A.—AGRICULTURE.

GROUP 19.

117. Sust & Co. Exhibit of sawdust. 104

DEPT. B.—Horticulture.

GROUP 20.

118. Ambrosioni, Pedro. Red wine. 127
 119. Arrechavaleta, Jose. 250 species of
 Uruguayan grapes. 119
 120. Basso, Domingo. Red wine. 127
 121. Beisso, Pablo. Red wine. 127
 122. Bonati, L., Preti,
 a White wine. 126
 b Red wine. 127
 c Cognac. 131
 123. Bonilla Sons, Sancho & Co. Red
 wine. 127
 124. Braceras, Angel. Red wine. 127
 125. Brauer, Jorje, & Co. Red wine. 127
 126. Clave, Augusto, & Co. Red wine. 127
 127. College Doi of Villa Colon.
 a White wine. 126
 b Red wine. 127
 128. De Leon, Pedro. Red wine. 127
 129. Gamberoni, Antonio.
 a Red wines. 127
 b Brandy. 131
 130. Geyres, Lorenzo.
 a White wine. 126
 b Colored wine. 127
 131. Harriague, Pascual.
 a White wine. 126
 b Red wine. 127
 c Cognac. 131
 132. Hermanos, Pillargat.
 a White wine. 126
 b Red wines. 127
 133. Hermenejildo, Morini & Co. Cherry
 bounce. 131
 134. Herten, Guitaro.
 a White wine. 126
 b Red wine. 127
 135. Longuas, Luis Lerena.
 a White wine. 126
 b Red wine. 127
 136. Martino, Toaquin. Red wine. 127
 137. Martins Sons. Cherry bounce. 131
 138. Mot Latorain & Co. Red wine. 127
 139. Mula, Jose Angel. Red wine. 127
 140. Pastorino, Lorenzo.
 a White wine. 126
 b Red wine. 127
 141. Pereira, Bernardo C.
 a Nebiolo wine. 126
 b Red wine. 127
 142. Pons, Diego. Red wine. 127
 143. Remijio Gonzales Moreno Co. Red
 wine. 127
 144. Sacttone, Pedro. Red wine. 127
 145. Saltaria Viticulture Society.
 a Dry and sweet white wines. 126
 b Red wine. 127
 146. San Juan, Cristobal. Red wine. 127
 147. Schmidt, Gustavo A. White wine. 126
 148. Sienna, Rafael.
 a Earths for vine growing. 120
 b White wine. 126
 c Red wine. 127
 149. Uruguayan Viticulture Society.
 a White wine. 126
 b Red wine. 127
 150. Varci, Pablo. White wine. 126
 151. Varzi, Pablo. Red wines. 127

152. Vidiella, Federico R.
 a Red wines. 127
 b Cognac. 131

GROUP 21.

153. Demarco & Miret.
 a Canned dried fruit. 139
 b Fruits in syrups. 140
 c Fruit paste. 141

GROUP 23.

154. Exposition Committee. Collective
 exhibit of vegetables.

DEPARTMENT C.—Live Stock.

GROUP 35.

155. Supparo, Carlos. Specific to kill in-
 sects and cure wounds. 235

DEPT. D—FISH AND FISHERIES.

GROUP 40.

156. Government of Rocha. Salt fish. 272

DEPT. E—MINES, MINING AND
METALLURGY.

GROUP 42.

157. Genta, Jose & Co. Crystal. 291
 158. Posada, Clemente Barrial. Exhibit
 of minerals. 291
 159. Rocha, Government of. Collection of
 minerals. 290

GROUP 44.

160. Lochria Bros. Granite and cut
 stone. 296

GROUP 46.

161. Amaral, Julio. Bituminous clay. 304
 162. Government of Rocha. Kaolin. 304

GROUP 47.

163. Ossola, Francisco. Portland tubes,
 syphons and tiles. 309,

GROUP 51.

164. Pitzer, Louis P. & Sons. Copper
 pans. 342

GROUP 67.

165. Posada, Clemente Barrial.
 a Geologic-topographical plan of the
 gold bearing region of Tacuarembó. 410
 b Book entitled "Origin of the gold
 bearing region of Tacuarembó." 411

DEPT. G—TRANSPORTATION—RAIL-
WAYS, VESSELS, VEHICLES.

GROUP 80.

166. Ministry of Public Works. Record
 of the South American railways and great
 lines, accompanied with a map. 503
 167. Posada, Clemente Barrial. Book
 entitled, "Project for an international
 American railroad." 503

GROUP 83.

168. Errasguin, Francisco V. Model and
 photographs of shackles for oxen. 523

URUGUAY.

GROUP 85.

169. Fortit, Laura Carreras. Fac-simile of the caravel "Santa Maria." 528

DEPT. H—MANUFACTURES.

GROUP 87.

170. Aspeci, Franguillo. Medical elixir. 547
 171. Genta, Juan. Cocoa cosmetics, etc. 549
 172. Paujibove, Jose M. Papaion specific. 547
 173. Roman, Sola & Co., Perfumery. 549
 174. Walter, Camilo. Test of expansive force of powder. 550
 175. Zanzi, Louis. Balsams. 547

GROUP 88.

176. Cistac, Julio T., Varnishes. 554

GROUP 89.

177. Schmith, Franco & Co. Blank books, bindings, etc. 561

GROUP 96.

178. Guevenach, Jorje. Wood sculptured arms of North America. 598

GROUP 100.

179. Zanzi, Louis. Spun silk. 627

GROUP 104.

180. Chelli, Daniel G. Men's clothing. 652
 181. Ciocca, Jose A.
 a Overgaiters. 656
 b Hose. 657
 182. Mariani, Carlos. Frock coat and waistcoat. 652
 183. Martorano, Luis. Ladies' boots. 656

GROUP 105.

184. Cambiaso, Cajetano. Natural and dyed seal skin. 660
 185. Croker, Carlos H. Seal skin from fresh water. 660
 186. Government of Rocha. Wild animal skins. 660

GROUP 106.

187. Ducci, Jose. Japanned buttons for men. 668
 188. Guerra, Juan. Embroidered picture. 669
 189. Martinot, Henry. Embroidered case. 665
 190. Zubillaga, Carlota. Embroidered chair covers. 669

GROUP 111.

191. Badaberry, Santiago. Sheep skins. 697
 192. Briganti, Francisco. Tanned colt and sea-calf skin. 697
 193. Buxcares, Felis. Leather. 697
 194. Cambiaso, Cajetano. Goat skin and sheep skins. 697
 195. Cambiaso, Cajetano.
 a Chamois skin. 696
 b Lustrous calf skin. 697
 196. Commercial Exposition. Leather. 697
 197. Lanza Bros. Leather. 697
 198. Manuel, Stirling. Leather. 697

GROUP 119.

199. Davant, Pablo. Iron locks. 747

DEPT. K—FINE ARTS.

GROUP 140.

200. Agortinelli, Jose. "Baptism of St. John."
 201. Correa, Manuel, "Hachero."
 202. Di Lorenzo, Donato. "Silence" and study of a head.
 203. Lebrun, Angela. Oil painting.

GROUP 143.

204. Hervel, Enrigue. Engravings.

GROUP 144.

205. Nin, Pablo & Gonzales. Pen drawing.
 206. Sociedad Liga Professional. Sketches.

DEPT. L—LIBERAL ARTS.

GROUP 149.

207. Bollo, Luis C. School celebration. 850
 208. De Zapater, Filipa B. System of dress cutting. 843
 209. General Direction of Primary Instruction. Complete exhibition of instruction in the Republic. 850
 210. Lagomarcino, Angelo. Model of school desks. 842

GROUP 150.

211. Arocena, Carlos A. Hydrographic annual of the La Plata river for 1891. 854
 212. Bordoni, Josune. Books. 855
 213. College Pio of Villa Colon. The fall of rain in the climate of Montevideo. 864
 214. Cortessi, Jose. Pen sketch. 854
 215. Cosei, Formica. Study of the progress of homoeopathy. 854
 216. Esteves, Juan B. Spanish grammar. 855
 217. Exposition Committee. "Montivideo Colon." 854
 218. Francisco Vacquez Cores. School books. 855
 219. General Commissioner of Immigration and Colonization. Memorial of the commission and treatise. 863
 220. Lomba, Ramon, Lopez. Report of Ministry of Justice and Rules, 1885-86-87-88; statistics of the Orienta Republic and account of the Patriotic League of Instruction. 863
 221. Lussich, Antonio. Book, "Celebrated Shipwrecks." 854
 222. Lussich, Antonio D. Book entitled, "Naufragio Celebres." 854
 223. Maesso, Carlos M. Book, "El Oriental." 854
 224. Ministry of Public Works. Record of the South American railways and map. 863
 225. Montovani, Domingo. Sets of the periodical, "El Estudio." 854
 226. Pesce, Emilio R. Statistical data of the Republic. 854
 227. Piethore, Juan Jacobo. Poem of Juan Zorrilla de San Martin, "Fabare," French translation. 854

DEPARTMENT A.—AGRICULTURE.

228. Printing Establishment of L' Italia. Special typographical work with map of America printed on silk. 854
 229. Pujadas, Baldomero. Treatise on stenography. 854

GROUP 151.

230. Arocena, Carlos A. Hydrographic Annual of the La Plata river for 1891. 859
 231. Chuts & Brooks. Photographic views. 876
 232. College Pio of Vill Colon. Vaporimeter and other instruments of climatology and meteorology, and statistics. 872
 233. Errasguin, Francisco V. Photographs. 871
 234. Exposition Committee. Photographic views. 871
 235. Fitzpatrick, J. Photographs. 871
 236. Hermanos, Dolce. Photographs. 871
 237. Monjani, Aguiles. Photographs. 871
 238. Patrick, J. Fitz. Photographs. 871
 239. Santurio, Marcelino. Album with photographic views of Reus Bank. 871

GROUP 152.

240. Rieffel, Jore. Sketch of street system. 879

GROUP 153.

241. Commission of the American Historical Exposition at Madrid. Memorial of its labors. 890
 242. Direction of General Statistics. Statistical annual. 890
 243. Direction of Civil Registry. Vital statistics, etc. 890
 244. Minister of Agriculture. Records for 1886-91. 890
 245. Ministry of Government. Laws and decrees. 890
 246. Ministry of Public Work. Records for 1890-91. 890
 247. Soeiedad Liga Professional. Sketches 890

GROUP 158.

248. Coppeti, Juan. Method and Treatise on the Copophone; album of music. 926

DEPT. N.—FORESTRY.

GROUP 19.

249. Bidgearay Juan R., & Sons. Exhibit of sawdust. 104
 250. Uruguayan Society Vitiula. Poplar wood. 99

THE BREWING INDUSTRY OF AMERICA.

BY THE PABST BREWING CO.

1865



NO one viewing the brewing industry from the standpoint of its nineteenth century development and beholding the perspective of the picture fading into antiquity, can fail to discover that the evolution of this mighty factor of modern enterprise is contemporaneous with the evolution of bread itself. The first historical mention of brewing is found in the papyri of the Egyptians. The presence of barley in the tombs of the Pharaohs would seem to anticipate for untold ages the papyri records, and much presumptive evidence of the greatest antiquity is found in the then perfection of the amber beverage for which we moderns, with laughable simplicity, are worshipfully thanking Gambrinus.

The Egyptians simply crushed the barley and mixed it with water and fermented the combination without the intervention of heat. If malting was known, we have no record of it. The Assyrians advanced one step and may be called the first brewers, for they boiled the crushed grain and then proceeded as the Egyptians were doing.



PLANT OF THE PABST BREWING CO.

No one knows what happy accident of deluge or disaster tempted some shrewd husbandman of centuries ago to spread his wetted grain to dry, and no one knows his dire dismay when little sprouts, fed by the life within, seeking God's sunlight, came inquiringly into the world, or how he tried to stop that growth and blunt for another age the sharp wedge of progress, or how, in desperation, he tried to brew with what he thought was useless, only to find the product better and that the world had discovered malt. Strength, calmness, power of thought, stately forms of giant men, the mighty hosts of peace and war have

since been sustained and built up by the jolly quaffing of foaming tankards.

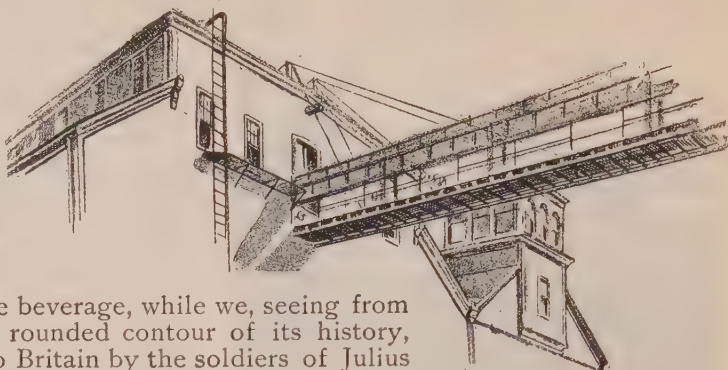
Imagination pictures the almost mythical Arthur, surrounded by his Knights of the Round Table, drinking the barley brew and with storied romance creating that legendary lore which Tennyson immortalized. We almost wonder if this Welsh hero of the Britons 1,300 years aback could have told whence came the beverage, while we, seeing from greater distance the rounded contour of its history, find it was brought to Britain by the soldiers of Julius Cæsar 500 years before brave Arthur reigned.

Ariovistus, a bold and powerful Suevic chief, was the first German to come in conflict with the minions of Julius Cæsar. When Cæsar sent to him proposing a personal interview, he haughtily answered that Cæsar had better come to Ariovistus, which Cæsar quickly did, and it may be added history has no further record of Ariovistus. But Cæsar continued his conquests, and his soldiers, who had learned the art of brewing from the Egyptians, gave the secret to the vanquished Germans, who subsequently became friendly allies. We think that every German who finds the gold beneath the snow of a "Mass" of Hofbrau, will, with a passing sigh of regret at the fate of Ariovistus, proceed to drown the memory of the sad event and be glad that Cæsar came.

The Gauls and Franks never cultivated to a great extent the brewer's art, preferring the product of the vintage and Bacchus, before Gambrinus, and the strange fact becomes apparent, to the thoughtful observer that the more volatile races of all Europe prefer the sparkling brilliancy of those drinks of amusement which originate in the clustering grape, while the steady and more powerful races with confidence demand that richer boon which springs from the waving barley.

Up from rich Mother Earth springs a graceful vine, its delicate tendrils clinging for support and its soft green foliage suggesting the delight of shadowed coolness beneath the summer sun. Coy it grows, yet climbs to greater height and in its sweet development suggests the woman. And as she rises, she decks herself with flowers whose petals, opening to the light, throw abroad a peaceful and somnolent perfume.

What happy blending of fate and affinity brought to an universal wedding the sturdy barley and the winsome hop? What harmony of wedded life could be more perfect? True, she brought some bitterness into the life of the good-natured fellow, but John Barleycorn has gained from her that soothing quality which slacks the tension of the weary brain and makes the malt beverage of the nineteenth century the safety valve of the high pressure minds which are sacrificing themselves to create modern civilization.

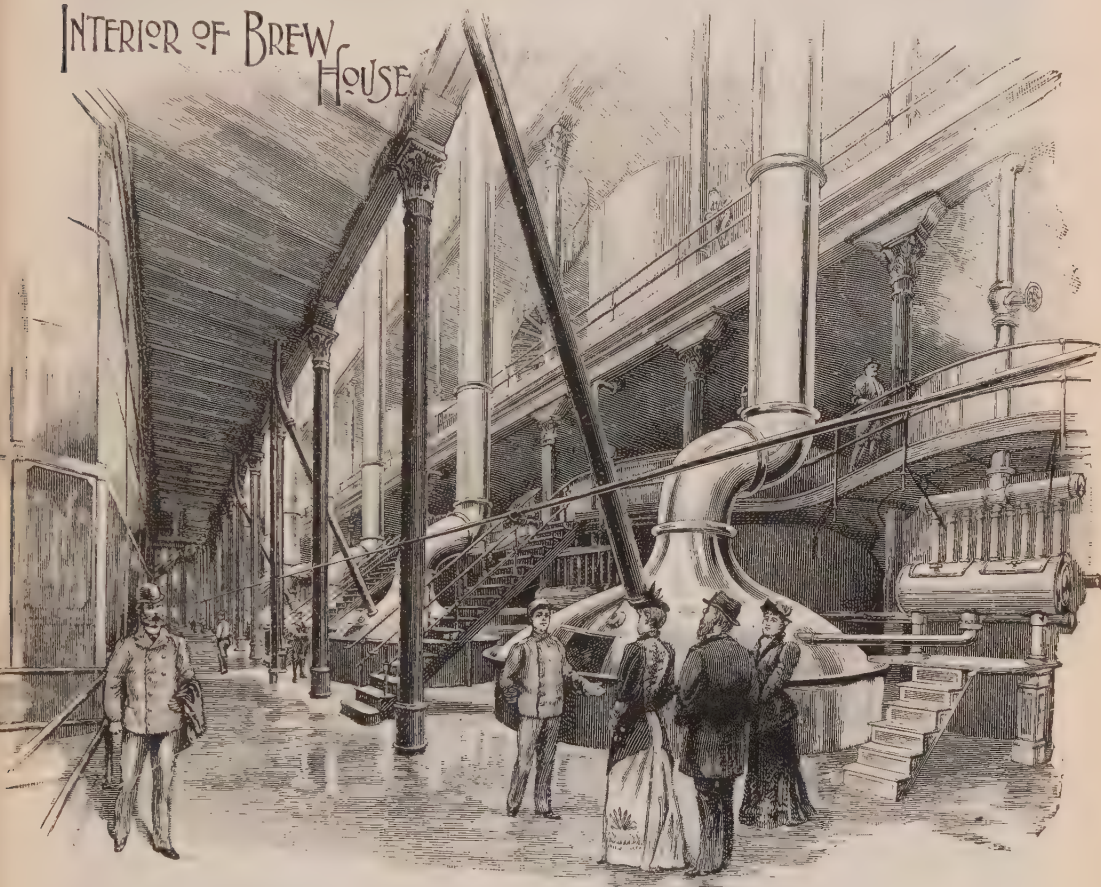


The history of brewing in America commenced on June 22, 1789, when was passed, together with the famous Blue Laws of Massachusetts, the bill exempting the manufacturers of malt beverages in the commonwealth of Massachusetts from taxation for five years, in order to encourage the business. But it is better to quote their reasons for passing the law:

WHEREAS, The manufacture of strong beer, ale and other malt liquors will promote the purposes of husbandry and commerce by encouraging the growth of such materials as are particularly congenial to our soil and climate and by producing a valuable article of exportation, and,

WHEREAS, the wholesome qualities of malt liquors greatly recommend them to general use, as an important means of preserving the health of the citizens of this commonwealth and of preventing the pernicious effect of spirituous liquors, be it therefore enacted, etc.

INTERIOR OF BREW HOUSE



Well, we have quoted enough. The old statesmen who framed our constitution probably knew what they were talking about; and when we find that the total product of the brewing industry in America at this time was not over 3,000 barrels in a year, and that today it has grown to an annual output of over 40,000,000 barrels, paying into the United States Treasury annually \$40,000,000 toward the support of the government, being one of the largest single industries of the whole country, we can not help astonishment. It is within the last twenty-five years, however, and chiefly within the last fifteen that the American people as a nation have turned away from the more hot and rebellious and turned to the most soothing and peaceful of modern beverages. It has been a natural tendency, due in some measure to the energy and intelligence of the brewers themselves, but in far greater measure to that tremendous activity of the American mind and the equally occidental tendency to overwork it, and the consequent demand for some harmless beverage which is not only a gentle sedative, but almost a food. Malt beverages are a source of calmness, while wines and liquors

are a source of excitement; both have their uses, but calmness is what is most needed, hence the rapidly increasing development of the brewing industry.

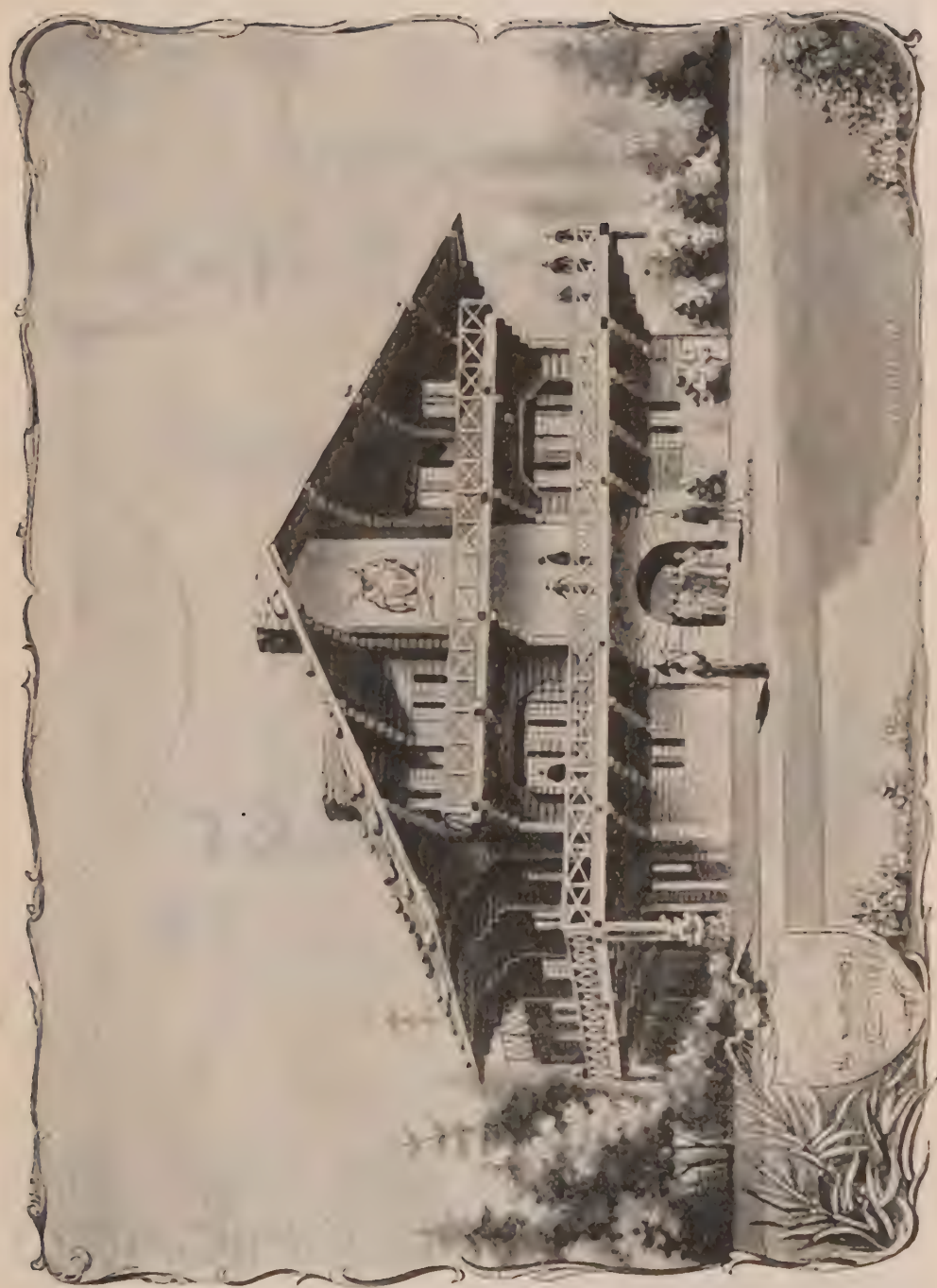
To the Germans, with their strong love of home and fond memories of the Fatherland, and their national fondness for that lightest of malt beverages, lager beer, are we indebted for its introduction to America. Even to-day the business is largely controlled by this prosperous, conscientious and thrifty people. The magnitude which has been attained by the more prominent brewing enterprises of America is almost astounding, and the West boasts several breweries whose production exceeds 500,000 gallons annually. There is no mystery about brewing and all the larger companies have regular guides to show visitors over the plants and give the public an opportunity to observe the absolute cleanliness and the sturdy honesty which characterizes the various processes. The German has nothing to fear from the most critical examination of his business methods, either in the processes or the material used in producing the world's greatest beverage.

The largest single representative of the brewing industry is, as every one knows, the Pabst Brewing Co., of Milwaukee. The annual output of this company is 1,198,000 barrels, about 71 per cent. greater than that of its nearest rival. The Pabst Brewing Co. brews, therefore, 1-33 part of the entire output of the United States, although there are 1,780 breweries. The kegs and packages used by the Pabst Brewing Co., loaded for shipment, would make a train 116 miles long. The daily shipments average 75 car loads for each working day. About 150,000 barrels of the product are bottled, making 40,000,000 bottles, mostly quarts. The annual cost of corks is \$138,000. The buildings alone cover ten acres, and thirty-four acres of floor space are in constant use. The exhibit which they make at the Fair is marvelous in its splendor—a gold model of the brewery, made from architectural drawings, an absolute and exact representation of Milwaukee buildings only and including only those which are in constant actual use. If the forty branch houses, the ice houses (numbering more than 400), the untold corners, business blocks, hotels, theatres, cooperage shops, the Spanish cork factory, the glass bottle manufactory, the southern ice-plants, the nearly 500 agencies, owned or controlled by them were included, the model, on the scale of 1-8 of an inch to the foot, would cover 800 square feet. Over this golden model is a terra cotta and glass palace, which is symbolical of the brewing industry and which must be seen to be appreciated.

Visitors to the World's Fair will find when they see the Brewers' corner a display equal to any class of exhibits. The refined elegance of the structures which they have built for the display of their wares, reflects the greatest credit upon them, showing as it does a keen intelligence and a broad comprehension of nineteenth century business requirements.

It is now becoming generally admitted that many of the gravest questions of the temperance problem will be solved by the increasing popularization of malt beverages, which slowly but surely are superseding more spirituous drinks, and thereby paving the way to that true temperance which should be the highest ideal of the reformer





IDAHO STATE BUILDING.

KEELEY BREWING COMPANY



Foot of 28th Street and
Groveland Park Avenue,

CHICAGO.

TELEPHONE SOUTH 349.

GEORGE H. JARDEN,
PRESIDENT AND TREASURER.

EUGENE Z. KIENZLE,
SECRETARY.

THE HANNIS DISTILLING CO.

...DISTILLERS OF THE CELEBRATED...

MOUNT VERNON AND
HANNISVILLE PURE RYE WHISKIES

AWARDED FIRST PRIZES AT THE

CENTENNIAL EXPOSITION, 1876.

WORLD'S FAIR, NEW ORLEANS, 1885.

AUSTRALIAN EXPOSITION, 1887



DISTILLERIES:

MOUNT VERNON,

BALTIMORE, MD.

HANNISVILLE,

MARTINSBURG, W. VA.

OFFICES:

218 So. Front Street, PHILADELPHIA.

52 Broad Street, NEW YORK.

Ostend and Russell Sts., BALTIMORE.

Martinsburg, WEST VIRGINIA.

... ALSO SOLE PROPRIETORS OF ...

Acme, Victor and Tidal Wave Whiskies

See our Exhibit in Agricultural Building, Dept. A, Group 11, Class 66,
Location, I-J-5.



WEST VIRGINIA STATE BUILDING.



David Bradley Mfg. Co.

63 N. DESPLAINES STREET,

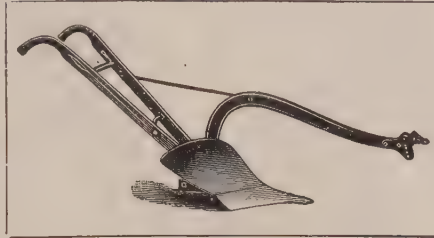
CHICAGO, ILL.

MAKERS OF . . .

"GARDEN CITY CLIPPER" PLOWS

AND OTHER AGRICULTURAL IMPLEMENTS.

Over 250 styles and sizes.
Correct shape and a uni-
formly hard temper. . .
First-class work with
light draft.



Made from rolled plates
of special steel. . . .
Also manufacture chilled
and combination plows.

SEE OUR EXHIBIT IN AGRICULTURAL BUILDING.

BRANCH

DAVID BRADLEY & CO., Minneapolis, Minn.

DAVID BRADLEY & CO., Council Bluffs, Ia.

BRADLEY, WHEELER & CO., Kansas City, Mo.

BRADLEY, HOLTON & CO., Indianapolis, Ind.

HOUSES:

Milwaukee Avenue cars pass the door. Lake Street, Randolph Street and Madison Street cars pass near our office.

WARWICK CYCLES



Light,
Elegant,
Strong,
Safe,
Speedy,
Comfortable.

WEIGHT, 30 LBS. PRICE, \$150.

WARWICK CYCLE MFG. CO., SPRINGFIELD, MASS.



The above cut imperfectly represents our exhibit in the Southwest corner of the Agricultural Annex. An accomplished Linguist will be in attendance during the entire period. We invite your inspection.

Yours truly,

MOLINE FLOW CO.



ILLINOIS STATE BUILDING.



TEMPLE OF VESTA.

SITUATED NEXT SOUTH OF MUSIC HALL AND NEAR THE PERISTYLE.

It was Built expressly for the Sale and Exhibit of

Lowney's Chocolate Bonbons.

THESE GOODS

ARE ABSOLUTELY PURE AND OF THE FINEST QUALITY.

THE WALTER M. LOWNEY CO.

BOSTON.

CHICAGO.

R. F. SIMMONS & Co.

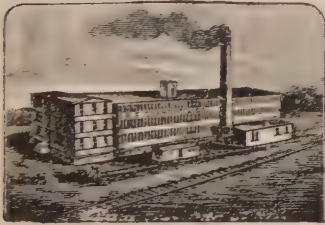
... MAKERS OF THE ...

LARGEST AND FINEST LINES OF

Gold, Gold Filled and Rolled Gold Plated Chains,
Charms, Seals and Locketts

... IN THE WORLD ...

PLANT AT
ATTLEBORO, MASS.,
U. S. A.



TRADE—"R. F. S. & CO."—MARK.

We guarantee every article we make to give ENTIRE SATIS-
FACTION to the wearer.

SEND FOR ILLUSTRATED CATALOGUE.

SALESROOMS:

41 and 43
Maiden Lane,



NEW YORK
CITY.

WALTER SCOTT & CO.

... MANUFACTURERS OF ...

PRINTING MAGHINERY

PLAINFIELD, N. J.

See our Exhibit

MACHINERY HALL



NEW YORK

OFFICE

SECTIONS 36 AND 37

—TIMES BUILDING

The Miehle Two Revolution

AND ITS

PERFECT, SWIFT,
NOISELESS AND
EVERLASTING



PRINTING PRESS

Bed Motion: A Fundamental Improvement.

An absolutely new and powerful mechanical movement which governs the action of the type bed while reversing. The world is challenged to any competition in quality and quantity of product.

Printers visiting the **WORLD'S COLUMBIAN EXPOSITION** can verify these remarkable claims by an inspection of our **EXHIBIT** of Presses. It will be found in **SECTION 34, MACHINERY HALL**. Correspondence solicited.

MIEHLE PRINTING PRESS AND MANUFACTURING CO.

MANUFACTURERS OF { PRINTING PRESSES AND THE
S. K. WHITE PAGING AND NUMBERING MACHINES.

Main Office and Factory,
75 North Clinton St., Chicago.

Down-Town Office,
262 Dearborn Street, Chicago.

New York, 101 World Bldg.

San Francisco, 529 Commercial St.

GEO. D. GRAHAM, AGENT.



THE WORLD'S FAIR LINE



BETWEEN

CHICAGO AND THE SOUTH

CHOICE OF ROUTES VIA

CINCINNATI OR LOUISVILLE

All its equipment is the latest improved Pullman construction. Its roadbed thoroughly reconstructed, insuring its patrons speed, comfort and safety.

THIS IS THE DINING CAR LINE TO THE OHIO RIVER.

For rates, schedules, etc., address

**JAMES BARKER, GEN'L PASSENGER AGENT,
MONON BLOCK, CHICAGO.**

SUPERIOR BRANDS;

PERFECTO
ULMER
WIENER

EXPORT

THE

WAGKER & BIRK.

BREWING COMPANY

171
North
Desplaines
Street.



Telephone 4231.

BREWERY:

161-181 No. Desplaines St.

ELEVATOR:

16-22 Indiana St.

MALT HOUSE:

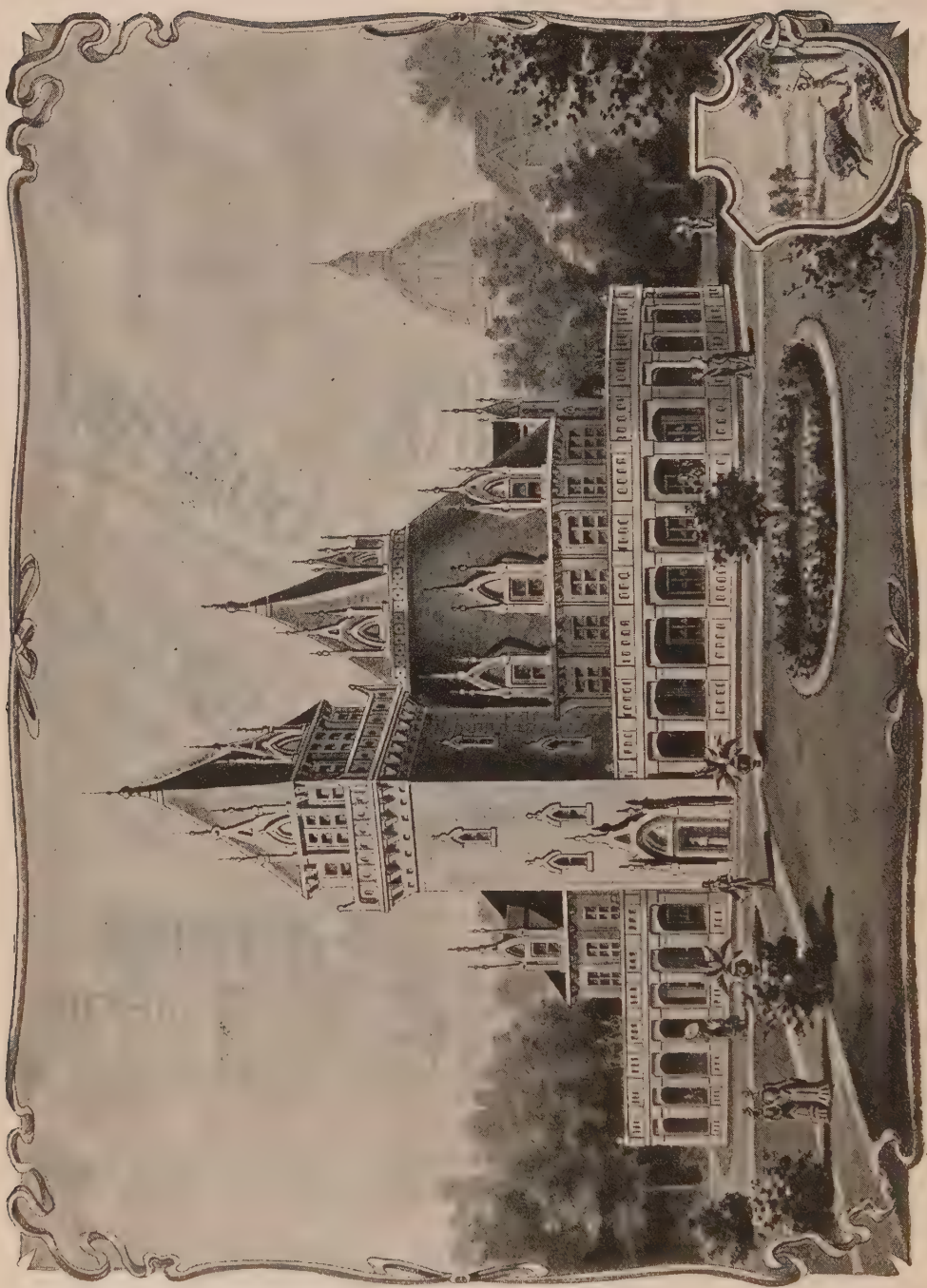
178-192 No. Jefferson St

CHICAGO,
ILLINOIS.



Bottling of Export
AND Table Beer

For Family Use
A Specialty.



INDIANA STATE BUILDING.

THE THROUGH CAR ROUTE

BETWEEN CHICAGO AND

St. Paul,
Minneapolis,
Milwaukee,
Eau Claire,
Duluth, Superior,
Ashland,
Marquette,



Council Bluffs,
Omaha,
Sioux City,
Denver,
Salt Lake,
Portland,
San Francisco,

AND PRINCIPAL CITIES OF THE

...WEST AND NORTHWEST...

A Standard Railway Equipped with the best of modern appliances. Solid Vestibuled Trains. Buffet Smoking and Library Cars, Private Compartment Sleeping Cars, Free Reclining Chair Cars, Palace Sleeping Cars, Luxurious Parlor Cars and Superb Dining Cars are features of the perfect service afforded patrons of the CHICAGO & NORTH-WESTERN RY.

Chicago Ticket Offices, 208 CLARK ST.

AND PASSENGER STATION
COR. WELLS AND KINZIE STS.

W. H. NEWMAN, 3D VICE-PRESIDENT.

J. M. WHITMAN, GENERAL MANAGER.

W. A. THRALL, GEN. PASS. & TICKET AGT.

ESTABLISHED, GERMANY, 1775.

ESTABLISHED, AMERICA, 1875.

... WAREHOUSES ...

63 and 65 Pearl Street.

28 and 30 Stone Street.

CABLE ADDRESS:

OFFICE:

NUNGESSER, NEW YORK.

65 PEARL STREET.

HENRY NUNGESSER

SEED . . .



MERCHANT

IMPORTER AND EXPORTER OF

Grass and Clover Seeds.

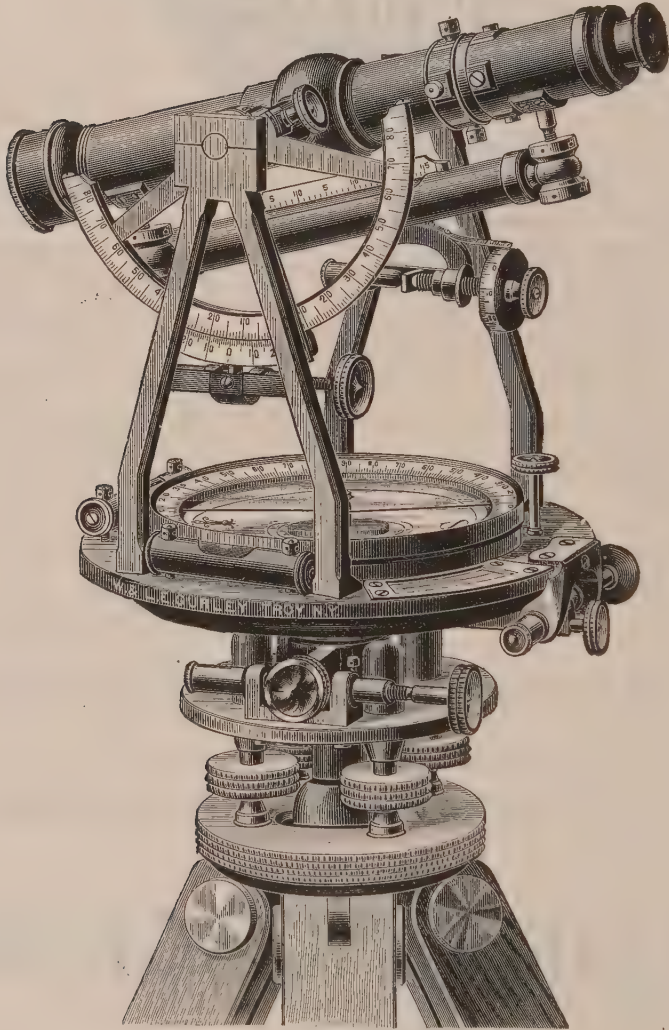
.. NEW YORK.

ESTABLISHED 1845.

W. & L. E. GURLEY

TROY, N. Y.

U. S. A.



LARGEST MANUFACTURERS IN AMERICA OF

Field Instruments for Civil Engineers and Surveyors.

Look for our Exhibit in the front of the North Gallery of the Manufactures
and Liberal Arts Building.

MARDER, LUSE & CO. FOUNDRY

139 AND 141
MONROE STREET,
CHICAGO.

TYPE FOUNDERS

Dealers in

PRINTING MATERIAL

BRANCHES:

and MACHINERY

MARDER, LUSE & CO. FOUNDRY,
MINNEAPOLIS, MINN.
MARDER, LUSE & CO. FOUNDRY,
ST. PAUL, MINN.
MARDER, LUSE & CO. FOUNDRY,
OMAHA, NEB.
MARDER, LUSE & CO. FOUNDRY,
KANSAS CITY, MO.

THE TYPE
FOR

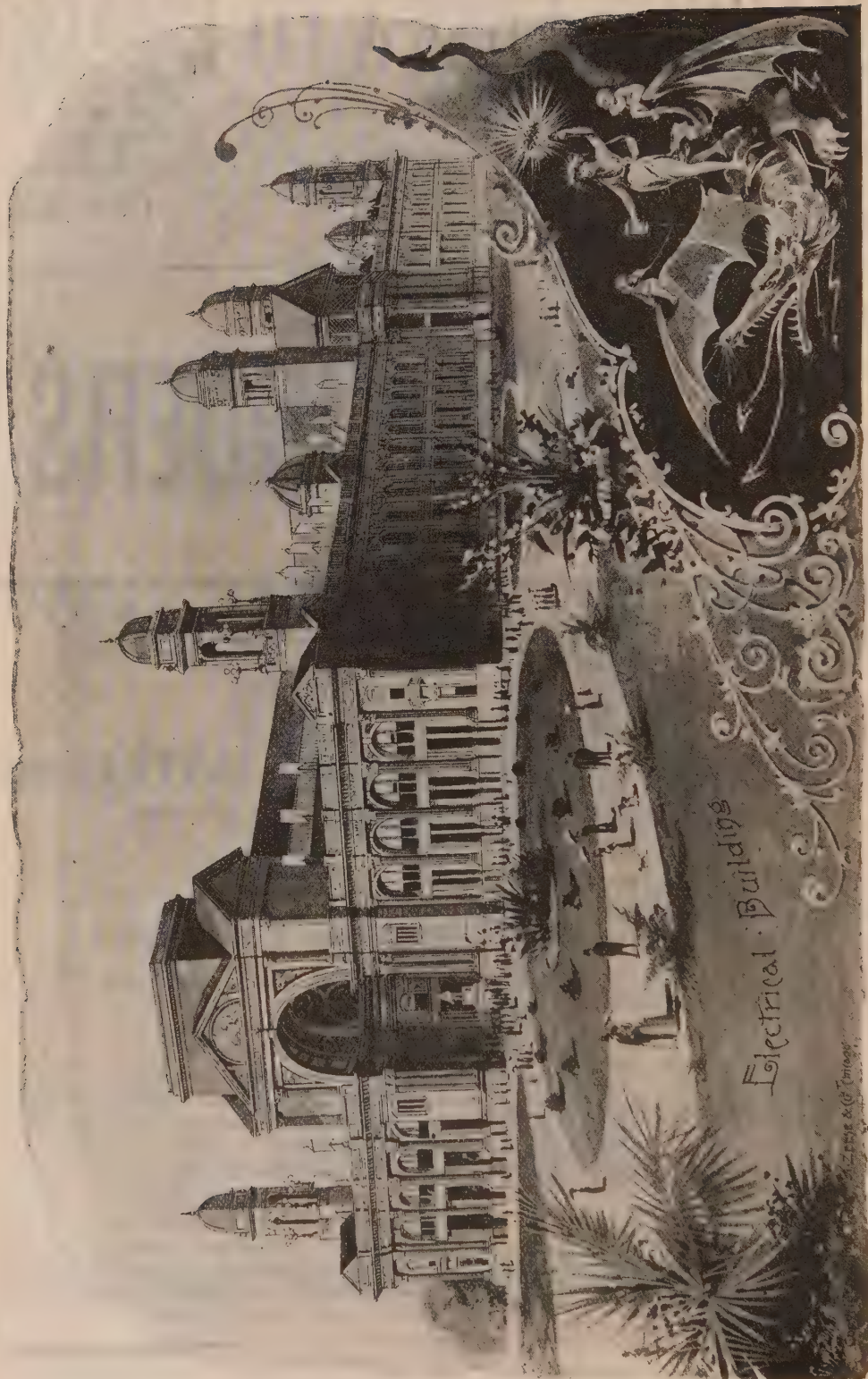
THIS PUBLICATION

WAS FURNISHED BY

MARDER, LUSE & CO. FOUNDRY,
CHICAGO, ILL.

TYPE OF OUR MANUFACTURE
IS ALSO FOR SALE BY

DICKINSON TYPE FOUNDRY, BOSTON.
BOSTON TYPE FOUNDRY, BOSTON.
THE CONNER TYPE FOUNDRY, NEW YORK.
MACKELLAR, SMITHS & JORDAN FOUNDRY, PHILA.
COLLINS & MCLEESTER FOUNDRY, PHILADELPHIA.
JOHN RYAN FOUNDRY, BALTIMORE.
ALLISON & SMITH FOUNDRY, CINCINNATI.
CINCINNATI TYPE FOUNDRY, CINCINNATI.
CLEVELAND TYPE FOUNDRY, CLEVELAND.
CENTRAL TYPE FOUNDRY, ST. LOUIS.
ST. LOUIS TYPE FOUNDRY, ST. LOUIS.
BENTON-WALDO TYPE FOUNDRY, MILWAUKEE.
DENVER TYPE FOUNDRY, DENVER.

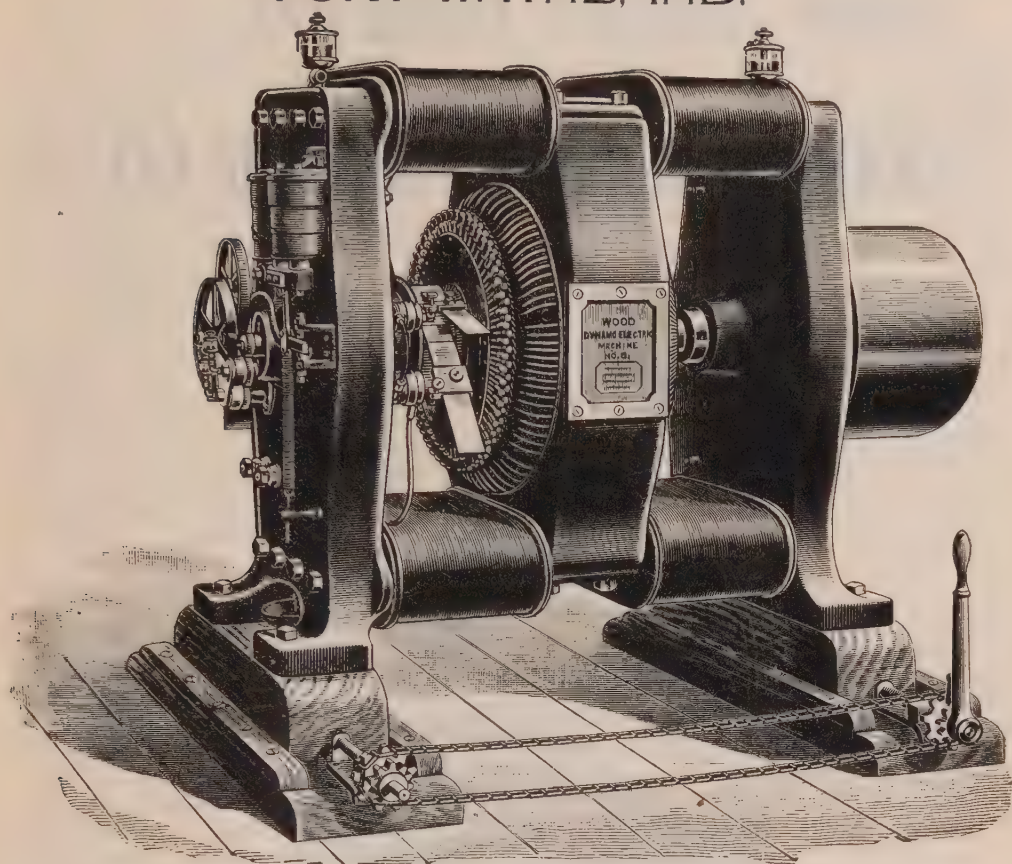


Electrical Buildings

W. & A. T. Moore

FORT WAYNE ELECTRIC CO.

FORT WAYNE, IND.



—MANUFACTURERS OF—

“Wood” Patent Apparatus for Arc Lighting, Alternating Current Lighting, Direct Current Incandescent Lighting, Generators for Railway and other Motor Circuits, Accurate Measuring Instruments, Meters and General Supplies.

This apparatus possesses the highest Electrical Efficiency, best Mechanical Construction and the most Artistic Design.

Twenty-six styles “Wood” Arc Lamps for Constant Current Circuits, Constant Potential Circuits and Alternating Circuits. Noiseless, no extra Rheostats.

More of our Arc Apparatus is in use than any other system, in such cities as Cincinnati, St. Louis, New Orleans, Detroit, Kansas City, Louisville and other cities.

The two largest stations in the world are of the Fort Wayne system.

See apparatus in operation at our World’s Fair Exhibit.

BRANCH OFFICES:

NEW YORK, 42 and 44 Broad Street.
CHICAGO, 185 Dearborn Street.
PHILADELPHIA, 907 Filbert Street.
PITTSBURG, 405 Times Building.
SYRACUSE, Kirk Building.

♦ COLUMBUS, O., 157 East State Street.
♦ SAN FRANCISCO, 35 New Montgomery St.
♦ CITY OF MEXICO.
♦ DALLAS, TEXAS.
♦ NEW ORLEANS, 52 Union Street.

(SEE PAGE 498.)

ESTABLISHED 1851.

THE...

INDIA RUBBER GOMB CO. ❖

AND THE...

GOODYEAR HARD RUBBER CO.

9, 11 AND 13 MERCER ST., NEW YORK.



The policy of this Company has always been to make goods of the highest standard of excellence.

The Company manufactures

HARD RUBBER GOODS
OF EVERY CONCEIVABLE
VARIETY.

CORRESPONDENCE
SOLICITED.

DEPARTMENT J—ELECTRICITY.

THE wonderful strides made in the field of electrical appliances during the past few years find a miniature in the display made at the Exposition. The prime object of the department is the demonstration, in actual operation, of the commercial and economic applications of electricity, and exhaustive tests of electrical apparatus in all possible directions, with a view to establish the actual efficiency of the same in comparison with other and older methods of accomplishment. In addition to these practical features, object lessons of interest and instruction, showing the development of the science from its formative or initiatory state to the present time, are presented. The accomplishment of this object takes the form of an historical exhibit embodying models, drawings and crude machinery made and used by pioneers in the science.

ELECTRIC LIGHTING.—The buildings and grounds of the Exposition are lighted by electricity. About 8,000 arc lamps of 2,000 candle power, and about 130,000 incandescent lamps of sixteen-candle power are required. Besides this, from 3,000 to 3,500 horse-power is required for the operation of the machinery of exhibitors. To furnish and transmit this 24,000 horse-power the Exposition Company has constructed a plant, complete in itself, composed of a number of smaller complete plants, into which contract to parts of the service plants are primarily of the Exposition, that reason promoting competition. The group by electricity is arc systems, their appliances; and systems, their and appliances.

APPARATUS.—Measurements; primary and secondary electric battery; direct current; incision; voltmeters, meters, etc.; resistors, switches, and protective appliances, such as lightning rods, lightning arrestors, fusible cutouts, etc., are appropriately grouped. Heating by electricity, electrotyping, electroplating, gilding and nickeling are exhibited.

MINING AND MILLING WORK.—Motors and other electric machinery are exhibited to fully illustrate the possibilities of the science in the direction of mining and milling, the long-distance transmission of power for mining operations, and the various applications of the power at the point of usefulness. Here may be seen electro-deposition of iron and other metals; electrolytic separation of metals from their ores or alloys, electric forging, welding, stamping, tempering, brazing, etc.

ARTISTIC EFFECTS.—Art in electricity is becoming popular, and the newest and most approved fixtures for lighting, as well as the many systems of stage and auditorium lighting, the lighting of art galleries, etc., are shown.

INSULATION WORK.—Wiring, underground and overhead systems of con-



J. P. BARRETT, CHIEF.

pany has constructed a plant, complete in itself, composed of a number of smaller complete plants, into which contract to parts of the service plants are primarily of the Exposition, that reason promoting competition. The group by electricity is arc systems, their appliances; and systems, their and appliances.

For electrical primary and secondary; dynamos of instruments of preameters, watt-cables, wires, rheo-indicators; safety

struction, interior insulation, conduit construction, etc., are greatly benefited by carefully installed exhibits, showing development in these directions.

TELEGRAPH AND SIGNALS.—In this group are shown the various systems of transmitting and receiving, chronographs, annunciators, thermostats, fire alarm apparatus, police telegraph and burglar alarm apparatus and railroad signal apparatus.

THE TELEPHONE.—The receiving and transmitting appliances of the now generally used telephone, together with the switch boards, signals, registers, etc., are shown in a separate group, embracing also receiving and recording apparatus, such as the phonograph.

MISCELLANEOUS.—In other groups are found exhibits of electric pens, electricity in surgery, dentistry and therapeutics; apparatus for the destruction of life, as seen in New York, for instance, where it is by law used for capital punishment; electricity in photography; in heating apparatus as applied to steam and hot air pipes and registers; its uses as a remedial agent and the history and statistics of electrical inventions, showing models and drawings of patents in Europe and America.

THE BUILDING.—The Electrical Building is 345 feet wide and 700 feet long, the major axis running north and south. The south front is on the great Quadrangle or Court; the north front faces the lagoon; the east front is opposite the Manufactures Building, and the west faces the Mines Building. The general scheme of the plan is based upon a longitudinal nave 115 feet wide and 114 feet high, crossed in the middle by a transept of the same width and height. The nave and the transept have a pitched roof, with a range of sky lights at the bottom of the pitch, and clearstory windows. The rest of the building is covered with a flat roof, averaging 62 feet in height, and provided with skylights. The second story is composed of a series of galleries, connected across the nave by two bridges, with access by four grand staircases. The area of the galleries in the second story is 118,546 square feet, or 2.7 acres. The exterior walls of this building are composed of a continuous Corinthian order of pilasters, 3 feet 6 inches wide and 42 feet high, supporting a full entablature, and resting upon a stylobate 8 feet 6 inches. The total height of the walls from the grade outside is 68 feet 6 inches. At each of the four corners of the building there is a pavilion, above which rises a light open spire or tower 169 feet high. Intermediate between these corner pavilions and the central pavilions on the east and west sides, there is a subordinate pavilion bearing a low square dome upon an open lantern. The building has an open portico extending along the whole of the south façade, the lower or Ionic order forming an open screen in front of it. The various subordinate pavilions are treated with windows and balconies. The details of the exterior orders are richly decorated, and the pediments, friezes, panels and spandrels have received a decoration of figures in relief, with architectural motifs, the general tendency of which is to illustrate the purposes of the building. The appearance of the exterior is that of marble, but the walls of the hemicycle and of the various porticos and loggia are highly enriched with color, the pilasters in these places being decorated with scagliola, and the capitals with metallic effects in bronze.

Following are from the rules issued by Chief Barrett:

All exhibits of electrical apparatus are installed in the Electrical Building, excepting generators, and the adjuncts of a generating plant, which are shown in operation.

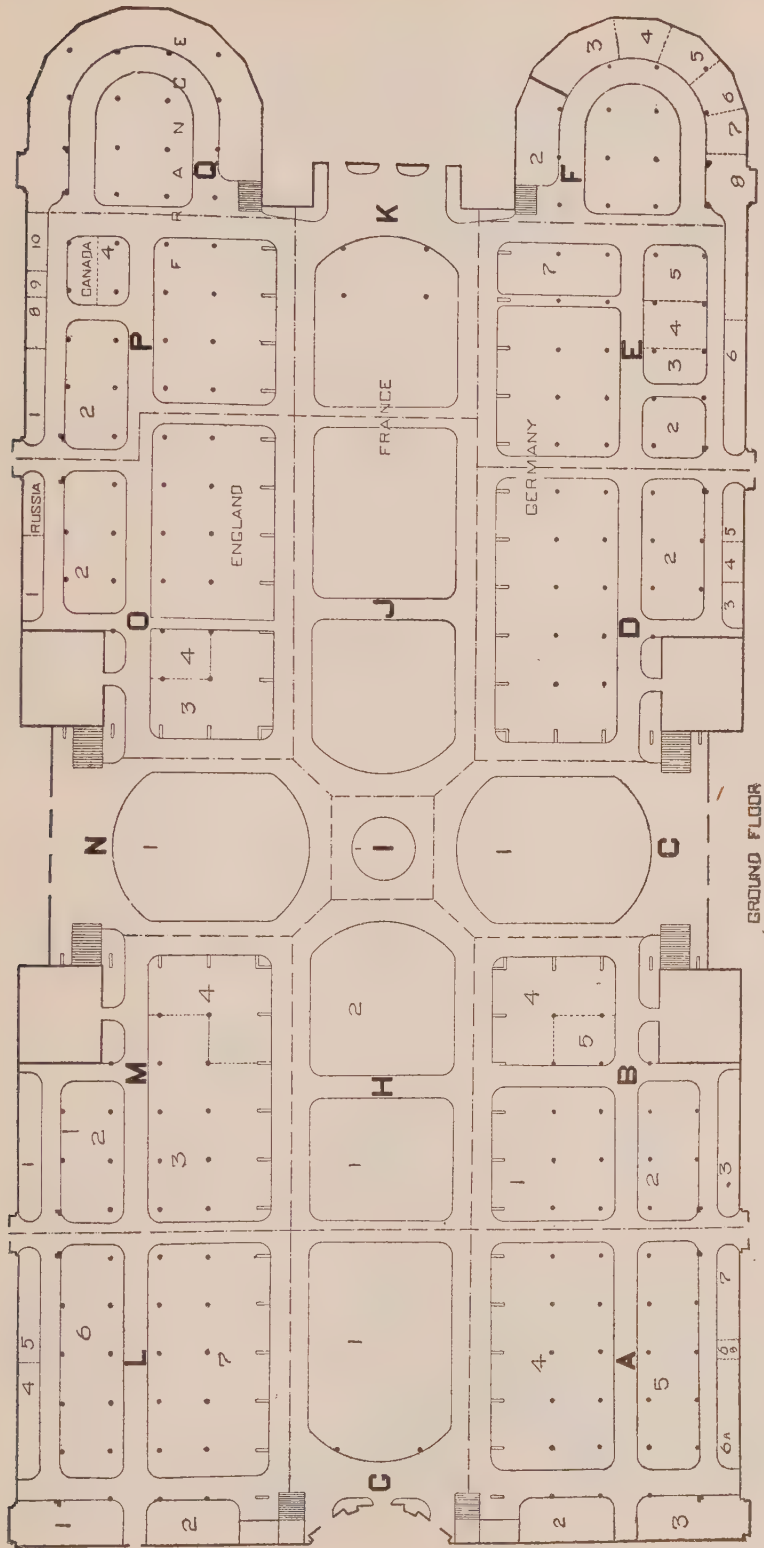
Ample facilities are furnished in the Electrical Building for moving any article or piece of machinery weighing not over 30,000 lbs., by means of railroad derricks.

No exhibitor can make exhibits in other than his own space without obtaining the written permission to do so from the Chief of the Department.

No exhibitor will be allowed to arrange his exhibit in a way to occasion inconvenience or affect the display of other exhibitors.

The floor of the Electrical Building is designed to sustain a weight of 150 pounds per square foot. Any exhibit requiring an extra support, in the judgment of the Chief of the Department, must be furnished with satisfactory support or foundation at exhibitor's expense.

All platforms, railings, counters, signs, partitions and showcases must be erected at exhibitor's expense and shall not exceed dimensions given in the general rules.

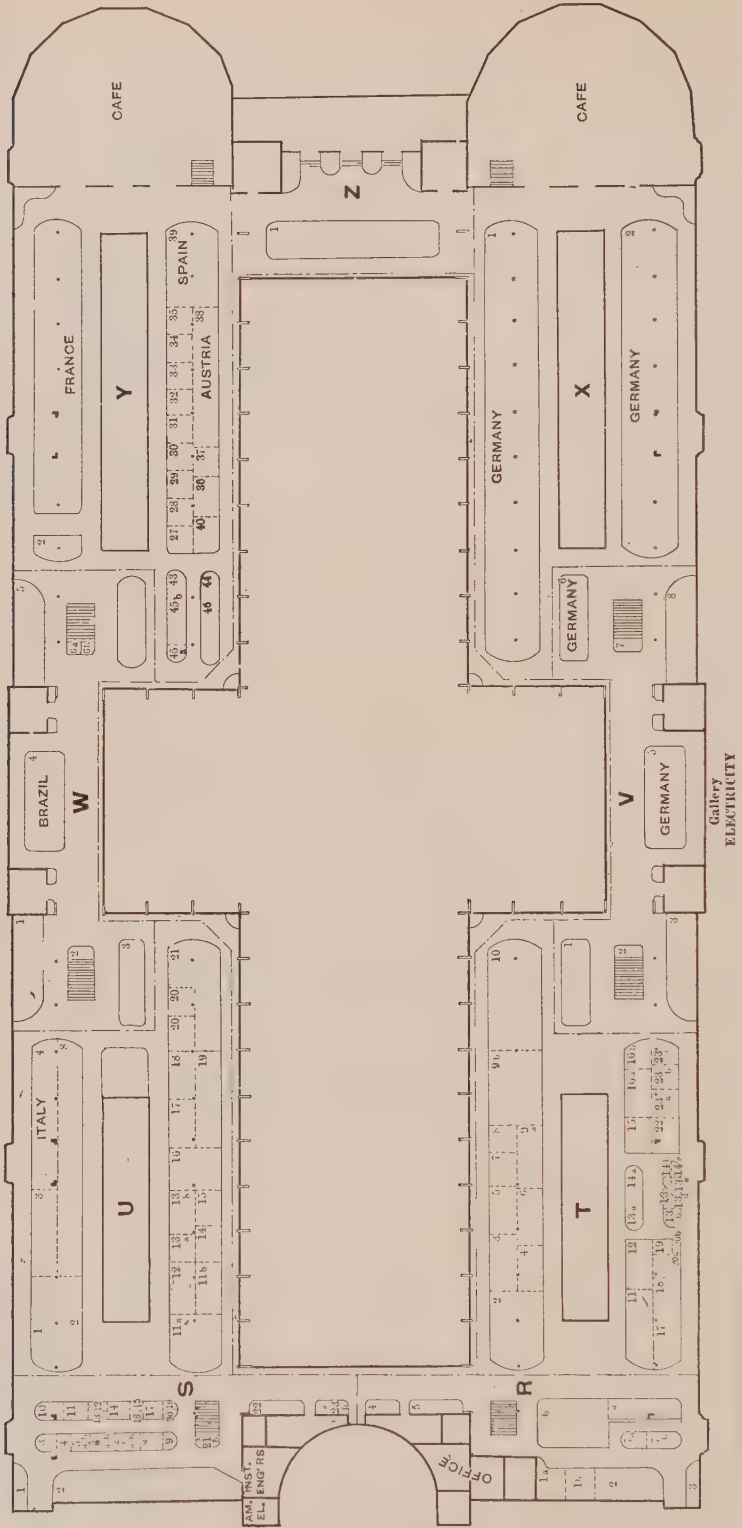


ELECTRICITY
WORLD'S COLUMBIAN EXPOSITION.

KEY TO INSTALLATION.

For the purpose of the installation of exhibits, the Electricity Building is divided into sections, lettered from A to Z. On the main floor the sections are numbered from A to Q, and on the gallery floor from R to Z. The sections are divided into exhibit spans, which are numbered. By consulting the floor plan the sections can be easily located. The location of exhibits is indicated by a letter and a number. For example, "V-5" means that the exhibit is in Section "V", which is in the gallery, and exhibit space 5.

COPYRIGHTED 1893,
BY THE
WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO.



COPYRIGHTED 1893,
BY THE
WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO.

CLASSIFICATION.

ELECTRICAL DEPARTMENT (J.)

ELECTRICITY AND ELECTRICAL APPLIANCES.

GROUP 122.

APPARATUS ILLUSTRATING THE PHENOMENA AND LAWS OF ELECTRICITY AND MAGNETISM.

- Class 757. Statical electricity.
- Class 758. Thermo electricity; thermo-electric batteries.
- Class 759. Magnets, temporary and permanent.
- Class 760. Induction coils, converters, etc.

GROUP 123.

APPARATUS FOR ELECTRICAL MEASUREMENTS.

- Class 761. Standard resistance coils.
- Class 762. Standard condensers.
- Class 763. Standard batteries.
- Class 764. Instruments of precision; voltmeters, ammeters, wattmeters, etc.

GROUP 124.

ELECTRIC BATTERIES, PRIMARY AND SECONDARY.

GROUP 125.

MACHINES AND APPLIANCES FOR PRODUCING ELECTRICAL CURRENTS BY MECHANICAL POWER— DYNAMICAL ELECTRICITY.

- Class 765. Dynamos of direct current, constant electro motive force; varying quantity.
- Class 766. Dynamos of direct current, constant quantity and varying E. M. F.
- Class 767. Dynamos of alternating current, constant E. M. F., and varying quantity.
- Class 768. Dynamos of alternating current, constant quantity and varying E. M. F.

GROUP 126.

TRANSMISSION AND REGULATION OF THE ELECTRICAL CURRENT.

- Class 769. Cables, wires, and insulation; rheostats, switches, indicators, registering meters; ammeters, voltmeters.
- Class 770. Safety and protective appliances; lightning rods, lightning arresters, insulators, fusible cut-outs, safety switches, etc.
- Class 771. Conduits, interior and underground.

GROUP 127.

ELECTRIC MOTORS.

- Class 772. Direct constant current.
- Class 773. Direct constant E. M. F.
- Class 774. Alternating current.

GROUP 128.

APPLICATION OF ELECTRIC MOTORS.

- Class 775. Street, underground, mining and other railways.
- Class 776. Elevators, pumps, printing presses, and general machinery.
- Class 777. Toys, novelties, and domestic appliances.

GROUP 129.

LIGHTING BY ELECTRICITY.

- Class 778. The arc systems, their lamps, fixtures and appliances.
- Class 779. The incandescent systems, their lamps, fixtures and appliances.

GROUP 130.

HEATING BY ELECTRICITY.

- Class 780. For warming and heating apartments.
- Class 781. For heating flat irons, soldering irons, and other objects used in industrial operations.
- Class 782. Maintenance of constant high temperature in ovens.
- Class 783. Electric heating furnaces.

GROUP 131.

ELECTRO-METALLURGY AND ELECTRO-CHEMISTRY.

- Class 784. Electrotyping.
- Class 785. Electro-plating, gilding and nickeling.
- Class 786. Electro-deposition of iron and other metals.
- Class 787. Electrolytic separation of metals from their ores or alloys.

GROUP 132.

ELECTRIC FORGING, WELDING, STAMPING, TEMPERING, BRAZING, ETC.

- Class 788. Apparatus for, and methods of forging, welding or joining iron, steel and other metals.
- Class 789. Brazing, stamping, tempering, etc.

GROUP 133.

ELECTRIC TELEGRAPHS AND ELECTRIC SIGNALS.

- Class 790. Various systems of transmitting and receiving.
- Class 791. Chronographs.
- Class 792. Annunciators.
- Class 793. Thermostats.
- Class 794. Fire alarm apparatus.
- Class 795. Police telegraph and burglar alarm apparatus.
- Class 796. Railroad signal apparatus.

GROUP 134.

THE TELEPHONE AND ITS APPLIANCES. PHONOGRAPHS.

- Class 797. Cables; construction and underground work.
- Class 798. Special protective devices.
- Class 799. Switch boards.
- Class 800. Transmitting apparatus.
- Class 801. Receiving apparatus.
- Class 802. Signalling apparatus.
- Class 803. Long distance systems.
- Class 804. Various systems of operation.
- Class 805. Subscribers' apparatus: Numbers, code, registers, etc.
- Class 806. Phonographs.—Receiving and recording apparatus.
- Class 807. Apparatus for the reproduction of recorded sounds and articulate speech.

GROUP 135.

ELECTRICITY IN SURGERY, DENTISTRY AND THERAPEUTICS.

- Class 808. Cautery apparatus.
- Class 809. Apparatus for the application of the electrical current as a remedial agent—surgical and dental.
- Class 810. Apparatus for diagnosis.
- Class 811. Apparatus for the destruction of life.

GROUP 136.

APPLICATION OF ELECTRICITY IN VARIOUS WAYS NOT HEREINBEFORE SPECIFIED.

- Class 812. Ignition of explosives; gas lighting, etc.
- Class 813. Control of heating apparatus by electricity, as applied to steam and hot air pipes and registers.
- Class 814. Electric pens.
- Class 815. Application in photography.

GROUP 137.

HISTORY AND STATISTICS OF ELECTRICAL INVENTION.

- Class 816. Objects illustrating the development of the knowledge of electricity and of the application of electricity in the arts.
- Class 817. Collections of books and publications upon electricity and its applications.

GROUP 138.

PROGRESS AND DEVELOPMENT IN ELECTRICAL SCIENCE AND CONSTRUCTION, AS ILLUSTRATED BY MODELS AND DRAWINGS OF VARIOUS COUNTRIES.

- Class 818. United States Patent Office and other exhibits of electrical models and drawings.
- Class 819. Foreign exhibits of electrical models and drawings.

GROUP 138 A.

- Class A. Construction tools, repairing tools, apparatus used in electrical construction.
- Class B. Apparatus for transmission of power to electrical generators (steam, compressed air, turbine oil friction, gearing, belting, etc., etc).
- Class C. Process of electro-engraving.
- Class D. Carbon and its application.
- Class G. Metals and their application in the construction of electrical apparatus.
- Class H. The kinetograph.
- Class J. Direct couple engine dynamos.
- Class K. Electrical lubricators.
- Class L. Application of electricity in testing and aging liquors.
- Class M. Electric tanning.

EUGENE F. PHILLIPS,
PRESIDENT.

W. A. HATHAWAY,
TREASURER.

W. H. SAWYER,
SECRETARY.

AMERICAN ELECTRICAL WORKS

PROVIDENCE, R. I., U. S. A.

◀—MANUFACTURERS OF—▶

Bare and Insulated Electric Wires

RAILWAY FEEDER AND TROLLEY WIRE.

ELECTRIC LIGHT LINE WIRE.

INCANDESCENT AND FLEXIBLE CORDS.

AMERICANITE, MAGNET,
OFFICE and ANNUNCIATOR

WIRES

FARADAY CABLES.



NEW YORK OFFICE, P. C. ACKERMAN, 10 Cortlandt St.
AGENT.

MONTREAL BRANCH:

EUGENE F. PHILLIPS ELECTRICAL WORKS, LTD.

Dept. J--Electricity and Electrical Appliances.

UNITED STATES.

GROUP 122.

Apparatus Illustrating the Phenomena and Laws of Electricity and Magnetism.

1. Belknap Motor Company, Portland, Me. Magnets. E-2 759
2. Brush Electric Company, Cleveland, Ohio.
 - a Temporary and permanent magnets. L-6-7 759
 - b Induction coils, converters, etc. 760
 For exhibit see page 673.
3. Diamond Electric Manufacturing Company, Peoria, Ill. Induction coils, converters, etc. L-4 760
4. Electrical Forging Co., Boston. Converters. D-2 760
- For exhibit see page 826.
5. Elwell-Parker Electric Construction Co. (of America), Chicago. Transformers. E-3 760
6. Fort Wayne Electric Co., Fort Wayne, Ind. Converters and reactive coils. M-3 760
- For exhibit see pages 498 and 645.
7. General Electric Company, New York and Boston.
 - a Magnets. H-2 759
 - b Induction coils, converters and transformers. C-1 760
8. Greeley, E. S., & Co., New York.
 - a Statical apparatus. F-8 757
 - b Magnets. 759
 - c Induction coils, etc. 760
9. Heisler Electric Co., Philadelphia. Transformers. O-4 760
10. Indiana Insulated Wire & Rubber Co., Jonesboro, Ind. Transformer system. U-16 760
11. Munson Lightning Conductor Company, Indianapolis, Ind. Electric machines. U-12 757
12. Powell, Wm., Company, Cincinnati. Induction coils. U-18 760
13. Pratt Electro Medical Supply Company, Chicago.
 - a Statical electricity. U-11-a 757
 - b Thermo electric batteries. 758
 - c Temporary and permanent magnets. 759
 - d Induction coils. 760
14. Queen & Co., Philadelphia.
 - a Electrical machines. E-7 758
 - b Batteries. 758
 - c Induction coils and converters. 760
15. Standard Underground Cable Company, Pittsburg, Pa. Static arresters. L-5 757

16. Stanley Electric Mfg. Co., Pittsfield, Mass. Z-1
 - a Statical electricity. 757
 - b Transformers; induction coils. 760
17. Thomson Electric Welding Co., Boston. Induction coils; transformers. O-2 760
18. Western Electric Co., Chicago.
 - a Magnets. A-4&5 759
 - b Induction coils, etc. 760
19. Westinghouse Electric Mfg. Co., Pittsburg, Pa. Induction coils and converters. Dept. F 760

GROUP 123.

Apparatus for Electrical Measurements.

20. Ansonia Electric Co., Chicago. Instruments of precision. Z-1 764
21. Anthony Electric Instrument Company, Chicago.
 - a Resistance coils. M-1&2 761
 - b Voltmeters, ammeters, etc. 764
22. Belknap Motor Company, Portland, Me. Voltmeters and ammeters. E-2 764
23. Central Electric Co., Chicago.
 - a Resistance coils. U-8 761
 - b Batteries. 763
 - c Instruments of precision. 764
24. Commercial Cable Co., New York.
 - a Condensers. Y-2 762
 - b Batteries. 763
25. Cutter, Geo., Chicago. Voltmeters; ammeters; wattmeters. T-3 764
26. Elwell-Parker Electric Construction Co. (of America), Chicago. Electrical measurement instruments. E-3 764
27. Fort Wayne Electric Co., Fort Wayne, Ind. Voltmeters, ammeters, polarity meters. Dept. F&M-3 764
- For exhibit see pages 498 and 645.
28. General Electric Company, New York & Boston. Instruments of precision, volt meters, ammeters, watt meters, etc. M-4 764
29. Greeley, E. S., & Co., New York.
 - a Resistance coils. F-8 761
 - b Condensers. 762
 - c Batteries. 763
 - d Voltmeters, ammeters, etc. 764
30. Hirtle, C. J., New York. Batteries. S-3 763
31. Indiana Insulated Wire & Rubber Co., Jonesboro, Ind. Voltmeters, ammeters, wattmeters. U-16 764
32. Jaeger, Charles L., Maywood, N. J. Voltmeters, ammeters, etc. T-19 764
33. Lee, Charles E., Chicago. Battery test. S-20 764

DEPT. J.—ELECTRICITY AND ELECTRICAL APPLIANCES.

34. McIntosh Battery & Optical Co., Chicago. Electrical measurement apparatus. W-3 764
35. Pratt Electro Medical Supply Company, Chicago.
a Standard resistance coils. U-11-a 761
b Standard condensers. 762
c Voltmeters, ammeters, etc. 764
36. Queen & Co., Philadelphia.
a Resistance coils. E-7 761
b Condensers. 762
c Testing keys and batteries. 763
d Ammeters, voltmeters. 764
37. Railway Equipment Co., Chicago. Instruments of precision. F-1 764
38. Standard Electric Company, Chicago. Ammeters. P-2 764
39. Stanley Electric Mfg. Co., Pittsfield, Mass. Condensers. Z-1 762
40. Western Electric Co., Chicago.
a Resistance coils. A-4&5 761
b Condensers. 762
c Batteries. 763
d Instruments of precision, voltmeters, ammeters, wattmeters. 764
41. Weston Electric Instrument Co., Newark, N. J. Voltmeters, ammeters, galvanometers, etc. R-6 764
42. White, James, Glasgow, Scotland. Voltmeters; ammeters, wattmeters, etc. E-7 764
43. Whitney Electric Instrument Company, Boston. Electric test instruments. U-16 764
- GROUP 124.**
- Electric Batteries, Primary and Secondary.**
44. American Battery Company, Chicago. Primary and secondary batteries. T-9-a
45. Ansonia Electric Co., Chicago. Batteries. Z-1
- 45a. Arentz, Roald, Copenhagen, Denmark. Electric machine. Dept. H
46. Central Electric Co., Chicago. Batteries. U-8
47. Consolidated Electric Storage Co., Chicago. Storage batteries. R-2
48. Edison M'f'g Co., New York. Batteries. S-2
49. Elgin Telephone Co., Elgin, Ill. Batteries. T-13-a
50. Ford-Washburn Storelectro Co., Cleveland, O. Storage batteries. U-15
 For exhibit see page 1003.
51. Greeley, E. S., & Co., New York. Electric batteries. F-8
52. Harrison Battery Light & Power Co., Washington, D. C., Primary battery and boat cell. T-13-a
53. Heisler Electric Co., Philadelphia. Batteries. O-4
54. Hirtlemann, C. J., New York. Primary batteries. S-3
55. International Automatic Light & Power Co., Chicago. Primary batteries. U-3
56. Leclanche Battery Company, New York. Batteries. V-7
57. Meyrowitz, E. B., New York. Storage batteries. W-2
58. National Carbon Co., Cleveland, Ohio. Carbon battery elements. R-7-b
59. National Engraving Machine Co., Chicago. Secondary batteries. S-8
60. Pfund, Richard, New York. Plunge battery. Z-1
61. Pratt Electro Medical Supply Company, Chicago. Electric batteries. U-11-a
62. Pumpelly, Jas. K., Chicago. Batteries. T-6
63. Queen, J. W., Philadelphia. Primary and secondary batteries. E-7
64. Roessler & Hasslacher, New York. Primary and secondary batteries. S-9
65. Union Electric Co., New York. Storage batteries. F-3
66. Union Electric Works, Chicago. Primary batteries. T-23
67. Vetter, J. C., & Co., New York. Electric batteries. W-2
68. Western Electric Co., Chicago. Batteries. A-4&5
69. Webb, G. F., Cleveland, Ohio. Galvanic batteries. Y-44
70. White, S. S., Dental Manufacturing Company, Philadelphia. Electric batteries. U-27
- GROUP 125.**
- Machines and Appliances for Producing Electrical Currents by Mechanical Power—Dynamical Electricity.**
71. Belknap Motor Company, Portland, Me. Direct current dynamos, constant E. M. F. E-2 765
72. Brush Electric Company, The, Cleveland, Ohio.
a Direct constant current dynamos—E. M. F. L-6-7 and Dept. F 765
b Direct current varying dynamos—E. M. F. 766
c Alternating current dynamos—constant E. M. F. 767
 For exhibit see page 673.
73. C. and C. Electric Motor Co., New York. Direct current dynamos. A-2 765
74. Commercial Electric Company, Indianapolis, Ind. Direct current dynamos, constant E. M. F. F-4 765
75. Crocker-Wheeler Electric Co., New York. Motor dynamos. L-1 765
76. Eddy Electric Manufacturing Company, Windsor, Conn. Direct current dynamos, constant E. M. F. B-3 765
 For exhibit see page 672.
77. Elektron Manufacturing Company, Springfield, Mass. Direct current dynamos, constant E. M. F. P-4 765
78. Elwell-Parker Electric Construction Co. (of America) Chicago.
a Direct dynamos. E-3 765
b Alternating dynamos. 767
79. Excelsior Electric Company, New York. Arc-light dynamos and power plant. B-5 & Dept. F 766
80. Fein, C. & E., Stuttgart, Germany. Dynamo machines. E-7 765
81. Ford - Washburn Storelectro Co., Cleveland, Ohio. Direct current dynamos. U-15 765
 For exhibit see page 1003.

UNITED STATES.

82. **Fort Wayne Electric Co., Fort Wayne, Ind.** M-3
a Railroad and power generators. 765
b Arc dynamos. 766
c Alternating dynamos. 767
 For exhibit see pages 498 and 645.
83. **General Electric Company, New York and Boston.**
a Direct current dynamos. C-1; H-20; J-1; N-1; O-3; PP. Dept. F; PH. Intramural Railway; Battleship. 765
b Direct current dynamos. B-4; PP. Dept. F 766
c Alternating current dynamos. C-1; N-1 767
d Alternating current dynamos. C-1 768
84. **Greeley, E. S., & Co., New York.**
a Direct current dynamos, constant E. M. F. F-8 765
b Direct current dynamos, varying E. M. F. 766
c Alternating current dynamos, constant E. M. F. 767
85. **Hanson & VanWinkle Co., Chicago.**
a Direct current dynamos, constant E. M. F. L-4 765
b Direct current dynamos, varying E. M. F. 766
86. **Heisler Electric Co., Philadelphia.**
a Direct dynamos. O-4 765
b Alternating dynamos. 767
87. **Jenny Electric Motor Co., Indianapolis, Ind.** Direct current dynamos. L-2 765
88. **Mather Electric Company, Chicago.** Compound wound power generators and direct current dynamos. M-1-2 765
89. **National Carbon Co., Cleveland, Ohio.** Dynamo carbon brushes. R-7-b 765
90. **Pratt Electro Medical Supply Company, Chicago.**
a Direct current dynamos—constant E. M. F. U-11-a 765
b Direct current dynamos—varying E. M. F. 766
91. **Queen, J. W., Philadelphia.** Cradle dynamo meters. E-7 766
92. **Short Electric Railway Co., Cleveland, O.** Street railway motors. L-6-7 765
93. **Standard Electric Company, Chicago.** Direct current dynamos, varying E. M. F. P-2, Dept. F 766
94. **Thomson Electric Welding Co. Boston.** Alternating current dynamos. O-2 767
95. **Wagner Electric Manufacturing Company, St. Louis.**
a Direct current dynamos—constant E. M. F. A-7 765
b Direct current dynamos—varying E. M. F. 766
c Alternating current dynamos—constant E. M. F. 767
d Alternating current dynamos—varying E. M. F. 768
96. **Western Electric Co., Chicago.**
a Direct dynamos. A-4&5 765
b Alternating dynamos. 767
97. **Westinghouse Electric Mfg. Co., Pittsburgh, Pa.** Dept. F
a Direct dynamos. 766
b Alternating dynamos. 768
98. **White, S. S., Dental Manufacturing Company, Philadelphia.**
a Direct current dynamos, varying E. M. F. U-27 766
b Alternating current dynamos, constant E. M. F. 767
99. **Wing, L. J., & Co., New York.** Direct current dynamos. P-10 765-766
100. **Zucker & Levett Chemical Co., New York.** Direct current dynamos. F-2 765

GROUP 126.

Transmission and Regulation of the Electrical Current.

101. **Ansonia Electric Co., Chicago.** Cables, wires, switches, etc. Z-1 769
102. **Anthony Electric Instrument Company, Chicago.** Indicators and registering meters. M-1 & 2 769
103. **Brixey, W. R., New York.** Wires, cables. T-2 769
 For exhibit see page 687.
104. **Brush Electric Company, The, Cleveland, Ohio.** Dials and ammeters. Dept. F 769
105. **Brush Electric Company, Chicago.**
a Switches, rheostats and electric supplies. L-6-7 769
b Arresters, insulators and safety appliances. 770
 For exhibit see page 673.
106. **Carpenter Enamel Rheostat Co., Bridgeport, Conn.** Rheostats. R-6 769
107. **Celluloid Zapon Co., New York.** Celluloid for insulation purposes. L-4 769
108. **Central Electric Co., Chicago.**
a Wires; lead cables. U-8 769
b Switches, insulators, etc. 770
c Conducts; tubing. 771
109. **Commercial Cable Co., New York.** Ocean cable operating apparatus. Y-2 769
110. **Chicago Electric Wire Company of Wilmington, Wilmington, Del.**
a Electrical supplies. T-15 769
b Interior and other conduits. 771
111. **Curtis Electric Manufacturing Company, Jersey City, N. J.**
a Rheostats. F-7 769
b Safety and protective appliances. 770
112. **Cutter, Geo., Chicago.**
a Rheostats; switches. T-3 769
b Insulators; cut-outs. 770
113. **Cutter Electric & Mfg Co., Philadelphia, Pa.** Push and key electric switch. Z-1 769
114. **C. & C. Electric Motor Co., New York.** Cables; wires; rheostats; switches; meters. A-2 769
115. **Electrical Conduit Co., New York.** Conduits. P-1 771
116. **Electrical Forging Company, Boston.**
a Cables, wires, rheostats, switches. D-2 769
b Insulators, fusible cut-outs and safety switches. 770
 For exhibit see page 826.
117. **Electric Heat Alarm Co., Boston.** Safety heat appliance. T-14 c 770
 For exhibit see page 681.
118. **Electric Selector & Signal Co., New York.**
a Signal indicator. U-19 769
b Electric light locks. 770

DEPT. J.—ELECTRICITY AND ELECTRICAL APPLIANCES.

119. **Electrical Specialty Company, Denver, Colo.**
a Switch. S-21-b 769
b Cut-out. 770
120. **Elektron Manufacturing Company, Springfield, Mass.** Cables, wires, and electrical appliances. P-4 769
121. **Elwell-Parker Electric Construction Co., (of America) Chicago.**
a Transformers. E-3 769
b Protective appliances. 770
122. **Empire China Works, Brooklyn, N. Y.** Hard porcelain electrical supplies. S-19 770
123. **Eureka Tempered Copper Co., North East, Pa.** U-14
a Copper for bearings. 769
b Commutators, brushes, etc. 770
124. **Fere, Malcolm, de la, Minneapolis, Minn.** T-10 769
a Cables, wires, specialties, etc.
b Railroad and other safety appliances. 770
125. **Fort Wayne Electric Co., Fort Wayne, Ind.** M-3 & Dept. F
a Rheostats; switches; meters. 769
b Lightning arresters, etc. 770
 For exhibit see pages 498 and 645.
126. **Gault, N. C., & CO., Winona, Minn.**
 Lightning rod with machine at work. Y-46 770
127. **General Electric Company, New York and Boston.**
a Rheostats, switches and meters. B-4; C-1; H-2; H-2; J-1; M-4; N-1; O-3; PP. Dept. F; PH. Intramural Railway. Battle ship. 769
b Safety appliances, lightning arresters and cut-outs. B-4; C-1; PP. Dept. F; PH. Intramural Railway. Battle ship. 770
c Underground conduits. J-1; PP. Dept. F 771
128. **Greeley, E. S., & Co., New York.**
a Electrical supplies. F-8 769
b Safety appliances. 770
129. **Hope Electric Appliance Co., Providence, R. I.**
a Mast arms. S-15, 16, 17 769
b Cut-outs, switches, etc. 770
c Conduits. 771
130. **Indiana Insulated Wire & Rubber Co., Jonesboro, Ind.** U-16
a Insulated wire. 769
b Safety appliances. 770
c Rubber conduits. 771
131. **India Rubber Comb Co. The, New York.** S-11
a Rubber insulation. 769
b Hood insulators, tubing; sheeting. 770
 For exhibit see pages 350 and 646.
132. **India Rubber & Gutta Percha Insulating Co., New York.** Electric cables and cords. Z-1 769
133. **Jaeger, Charles L., Maywood, N. J.**
 Compass, recording log and governors. T-19 769
134. **Jenny Electric Motor Co., Indianapolis, Ind.** Conductors, ammeters; voltmeters. L-2 766
135. **Johns, H. W., M'fg Co., New York.** U-21
a Insulating sheets; vulcabeston. 769
b Moulded mica. 770
c Conduits; asbestos. 771
136. **Knapp, Geo. S., Chicago.** Historical collection of lightning rods. S-10 770
137. **Lee, Charles E., Chicago.** Automatic battery cut-out. S-20 770
138. **Mather Electric Company, Chicago.**
a Electrical supplies. M-1-2 769
b Insulation appliances. 770
139. **McIntosh Battery & Optical Co., Chicago.** Rheostats; rheotomes. W-3 769
140. **McNeil Tinder Electric Company, Winchester, Ky.** Electric current indicators and registering meters. Y-35-a 769
141. **Munson Lightning Conductor Co., Indianapolis, Ind.** U-12
a Lightning conductors; glass balls. 769
b Vanes, etc. 770
142. **Murphy, T. J., New York.** Switch board. R-6 769
143. **National Conduit Manufacturing Company, New York.** Cement lined pipe for conduit. L-5 771
144. **New England Butt Company, Providence, R. I.** Braiders, winder and measuring machines. T-12 769
 For exhibit see page 683.
145. **New York Insulated Wire Co., New York.** T-11
a Insulated cables and wires. 769
b Tapes and compounds. 770
c Conduits. 771
146. **North American Electric Co., New York.** Rhesotats for lamps, etc. S-12 769
147. **Norwich Insulated Wire Co., New York.** Electric light cables. T-16-a 769
148. **Okonite Co., New York.** Okonite electric wires. U-8 769
149. **Paiste, H. T., Philadelphia.**
a Switches, meters, etc. S-22 769
b Cut-outs; safety appliances. 770
150. **Pass & Seymour, Syracuse, N. Y.**
 Cut-outs and switches. T-3 770
151. **Pendleton Glass Tube & Pipe Works, Pendleton, Ind.** Cast glass. A-4&5 770
152. **Platt, O. S., Bridgeport, Conn.** Switches. U-16 769
153. **Queen, J. W., Philadelphia.** Meters; balances; voltmeters. E-7 769
154. **Railway Equipment Co., Chicago.** F-1
a Resistance boxes, insulators, switches, etc. 769
b Fuse wire, brackets and hangers. 770
155. **Roessler & Hasslacher, New York.** Electrical supplies and appliances. S-9 769
 For exhibit see page 425.
156. **Standard Electric Company, Chicago.**
a Cables, wires, and electrical supplies. P-2 769
b Safety and protective appliances. 770
c Conduits. 771
157. **Standard Paint Co., New York.** T-18
a Insulating compounds; tape; paper. 769
b Armature varnish and paints. 770

UNITED STATES.

158. Stanley Electric M'fg Co., Pittsfield, Mass. Safety appliances. Z-1 770
159. Standard Underground Cable Company, Pittsburg, Pa.
a Cables and cable-boxes. L-5 769
b Cut-outs, binding-posts and lightning arresters. 770
c Conduits. 771
160. Thomson Electric Welding Co., Boston.
a Rheostats, switches, etc. O-2 769
b Safety appliances. 770
161. Union Electric Co., New York. Pipe-underground conduits. F-3 771
162. Utica Electric Mfg. & Supply Co., Utica, N.Y. R-4
a Double pole knife switches. 769
b Lightning arresters; fuse boxes; block and circuit jumpers. 770
163. Van Nuis, C. S., New York. Switches. R-6 769
164. Washburn & Moen Mfg. Co., Worcester, Mass. Light cables and wires. V-3 766
 For exhibit see page 357.
165. Western Electric Co., Chicago. A-4&5
a Cables, wires, rheostats, switches, indicators; meters. 769
b Safety appliances. 770
c Underground conduits. 771
166. Westinghouse Electric Mfg. Co., Pittsburg, Pa.
a Cables; wires; insulation. Dept. F 769
b Safety appliances. Dept. F 770
167. White, James, Glasgow, Scotland. Electrometers, rheostats, indicators, etc. E-7 769
- GROUP 127.**
Electric Motors.
168. Acme Filter Company, St. Louis. Direct constant E. M. F. motors. A-7 773
169. American Graphophone Co., Washington, D. C. Motors driving graphophones. S-14 773
170. Ansonia Electric Co., Chicago. Motors. Z-1 772
171. Baxter Electric Motor Co., Baltimore, Md. Electric motor. Dept. G 773
172. Belknap Motor Company, Portland, Me. E-2
a Direct constant current motors. 772
b Direct constant E. M. F. motors. 773
173. Brush Electric Company, Cleveland, Ohio. L-6-7 772
a Direct constant current motors.
b Direct constant F. M. F. motors. 773
 For exhibit see page 673.
174. Colburn Electric M'fg Co., Fitchburg, Mass. Electric motors. L-4 773
175. Commercial Cable Co., New York. Motors. Y-2 773
176. Commercial Electric Company, Indianapolis, Ind. Direct constant F. M. F. motors. F-4 773
177. Consolidated Electric Storage Co., Philadelphia. Motors. R-2 772
178. Crocker-Wheeler Electric Co., New York. Motors. L-1 772
179. C. & C. Electric Motor Co., New York. Motors. A-2 773
180. Curtis Electric Manufacturing Company, Jersey City, N. J. F-7
a Direct constant current motor. 772
b Direct constant E. M. F. motor. 773
181. Eddy Electric Manufacturing Company, Windsor, Conn. Direct constant E. M. F. motors. B-3 773
 For exhibit see page 672.
182. Edison M'fg Co., New York. Electric motors. S-2 773
183. Elektron Manufacturing Company, Springfield, Mass. P-4
a Direct constant E. M. F. motor. 773
b Alternating current motors. 774
184. Electrical Forging Co., Boston. Motor generator. D-2 774
 For exhibit see page 826.
185. Elwell-Parker Electric Co. (of America), Chicago.
a Direct constance motors. E-3 772
b E. M. F. direct constance motors. 773
186. Excelsior Electric Company, New York. B-5
a Direct constant current motors. 772
b Direct constant E. M. F. motors. 773
c Alternating current motors. 774
187. Ford-Washburn Storelectro Co., Cleveland, Ohio. Motors. U-15 773
 For exhibit see page 1003.
188. Fort Wayne Electric Co., Fort Wayne, Ind.
a Motors. 1-M-3 772
b Motors. 773
c Motors. 774
 For exhibit see pages 498 and 645.
189. General Electric Company, New York and Boston. H-2
a Direct constant current motors. 772
b Direct constant E. M. F. motors. In service; B-4; C-1; H-2; J-1; N-1; Battle ship. 773
c Alternating current motors. H-2; C-1; N-1 774
190. Hanson & Van Winkle Co., Chicago. L-4 722
a Direct constant current motors.
b Direct constant E. M. F. motors. 773
191. Heisler Electric Co., Philadelphia.
a Motors. O-4 772
b Motors. 774
192. Indiana Insulated Wire & Rubber Co., Jonesboro, Ind. Motors. U-16 774
193. Jenny Electric Motor Co., Indianapolis, Ind. Motors. L-2 773
194. Mather Electric Company, Chicago. Direct constant E. M. F. motors. M-1&2 773
195. Meyrourtz, E. B., New York. Direct constant current motor. W-2 772
196. Pratt Electro Medical Supply Company, Chicago. U-11-a
a Direct constant current motors. 772
b Direct constant E. M. F. motors. 773
197. Rockford Electric Manufacturing Company, Rockford, Ill. Direct constant potential motor. P-2; Dept. F and Dept. G 773
198. Smith Pneumatic Transportation & Storage Co., Chicago. Electric motors. Dept. G 772
199. Standard Electric Company, Chicago. Constant current series motor. P-2 772
200. Stanley Electric Mfg. Co., Pittsfield, Mass. Motors. Z-1 774
201. Union Electric Co., New York. Motors. F-3 773
202. Union Electric Works, Chicago. Battery motors. T-23 772

DEPT. J.—ELECTRICITY AND ELECTRICAL APPLIANCES.

203. **Wagner Electric Manufacturing Company, St. Louis.** A-7
a Direct constant current motors. 772
b Direct constant E. M. F. motors. 773
c Alternating current motors. 774
204. **Western Electric Co., Chicago. Motors.** A-4&5 772
205. **Westinghouse Electric Mfg. Co., Pittsburg, Pa. Motors.** Dept. F. 773, 774
206. **Wing, L. J., & Co., New York. Motors.** P-10 772, 773
207. **Zucker & Levett Chemical Co., New York. Motors.** F-2 773

GROUP 128.

Application of Electric Motors.

208. **American Battery Company, Chicago.** Electric toys, novelties and domestic appliances. T-9-a 777
209. **Ansonia Electric Co., Chicago.**
a Railway motors. Z-1 775
b Motors generally applied. 776
210. **Belknap Motor Company, Portland, Me.**
a Coffee mills. E-2 776
b Domestic appliances. 777
211. **Bemis Car Box Company, Springfield, Mass.** Street railway truck. H-2 775
212. **Central Electric Co., Chicago.**
a Railway motors. U-8 775
b Application of motors to novelties. 779
213. **Commercial Cable Co., New York.** Motors operating telegraphic instruments. Y-2 777
214. **Consolidated Electric Storage Co., Philadelphia.** Fans and toys. R-2 777
215. **Crane Elevator Company, Chicago.** Electric passenger elevator and power pump. Dept. F 776
216. **C. & C. Electric Motor Co., New York.** Motors generally applied. A-2 776
217. **Crocker-Wheeler Electric Company, New York.** Electric motors. L-1 776
218. **Crowell, Gilmer, Brooklyn.** Pressure blower and reservoir. U-13-A 776
219. **Curtis Electric M'f'g Co., Jersey City, N. J.** Car (mounted on truck and equipped). On exhibition tracks 776
220. **Curtis Electric Manufacturing Company, Jersey City, N. J.** Motors for street railways. F-7 775
221. **Cutter, Geo., Chicago.** Motors generally applied. T-3 776
222. **Electric Launch & Navigation Co., New York.** Electric passenger launches. On the lagoons. 776
223. **Electrical Machine Company, Chicago.** Electrical cloth cutting machine. Y-36 776
224. **Elektron Manufacturing Company, Springfield, Mass.** Electric elevators. P-4 776
225. **Elwell-Parker Electric Construction Co. (of America), Chicago.**
a Motors applied to railways. E-3 775
b Motors applied to elevators, etc. 776
226. **Emerson Electric Manufacturing Company, St. Louis, Mo.** Alternating fan motor. U-16 776
227. **Fere, Malcolm de la, Minneapolis, Minn.**
a Model electric railroad and maintenance. T-10 775
b Model electric submarine vessel. 777
228. **Ford-Washburn Storelectro Co., Cleveland, Ohio.** Motors generally applied. U-15 776
 For exhibit see page 1003.
229. **Fort Wayne Electric Co., Fort Wayne, Ind.** Motors driving dynamo machines. M-3 776
 For exhibit see pages 498 and 645.
230. **General Electric Company, New York and Boston.**
a Motors for railways. H-2; Intramural Railway; Dept. G 775
b Motors for general application. B-6; C-1; H-2; J-1; N-1; Dept. F; Dept. G; Launches. 776
c Motors for novelties. C-1 777
231. **Goulds Manufacturing Company, Seneca Falls, N. Y.** Electric pump. Dept. G 776
232. **Greeley, E. S., New York.** Domestic appliances. F-8 777
233. **Griffin Wheel & Foundry Company, Chicago.** Car wheels. Dept. G 775
234. **Illinois Alloy Co., Chicago.** Railway trolley wheels. T-14-B 775
235. **Jackson & Sharp, Wilmington, Del.** Electric railway. Intramural Ry. 775
236. **Jenny Electric Motor Co., Indianapolis, Ind.** Motors applied to novelties. L-2 777
237. **Jewell Belting Co., Hartford, Conn.** Dynamo belting. F-6 776
 For exhibit see page 469.
238. **K. A. P. Electrical Novelty Company, La Crosse, Wis.** Model globe, operated by electric motor. V-2 777
239. **Knights Coin Central Boot Blacking Co., Chicago.** Electric boot blacking machine. T-16-b 777
240. **Lawrence Machine Company, Lawrence, Mass.** Centrifugal pump. Dept. F 776
241. **Lidgerwood Manufacturing Company, New York.** Mining hoist. Dept. F 776
242. **Mather, A. C., Chicago.** Working models of cars and boats. E-5 775
243. **Mather Electric Company, Chicago.**
a Railway motors. M-1-2 775
b Elevator and general machinery motors. 776
244. **McIntosh Battery & Optical Co., Chicago.** Batteries and machines applied to novelties. W-3 777
245. **Merrill Bros., Brooklyn, N. Y.** Drop hammer, trimming press. D-2 776
246. **Munson, Chas., Belting Co., Chicago.** Belting. D-4 776
247. **New York Air Brake Company, New York.** Air brake equipment. H-2 775
248. **Otis Bros. & Co., New York.** Electric pumps. Dept. G 776
249. **Page Belting Co., Chicago.** Dynamo belting. D-5 776
250. **Powell, Wm., Company, Cincinnati.** Electrical machinery; oil cups for motors, etc. U-18 776

UNITED STATES.

251. Pratt Electric Medical Supply Company, Chicago. Electric novelties. U-11-a 777
252. Railway Equipment Co., Chicago. Trolley appliances. F-1 775
253. Robinson Electric Truck and Supply Co., Boston. Street railway truck. H-2 775
254. Rockford Electric Manufacturing Company, Rockford, Ill. Motor applied to generators and machinery. Z-1 776
255. Schieren, Chas. A., & Co., Chicago. Dynamo belting; perforated leather raw hide rope. D-3 776
256. Short Electric Railway Co., Cleveland, O. Railway motors and appliances, electric car. On Exhibition track. L-6-7 775
257. Sloss Electric Gaslight & Specialty Co., Chicago. Fan motors operated by batteries. A-6-A 777
258. Steam Stone Cutter Company, Rutland, Vt. Electric channeling machine. N-1 776
259. Stephenson, John, & Co., New York. Street railway truck. H-2 775
260. Sperry Electric Co., Cleveland, O. Street railway motors. On Exhibition tracks. 775
261. Taylor Electric Truck Company, Troy, N. Y. Street railway truck. H-2 775
262. Union Electric Co., New York. Street railway appliances. F-3 775
263. Union Electric Works, Chicago. a Battery motors applied to general machinery. T-23 776
b Battery motors applied to novelties. 777
264. Vetter, J. C., & Co., New York. Domestic appliances. W-2 777
265. Webb, G. F., Cleveland, Ohio. Electric novelties and domestic appliances. Y-44 777
266. Western Electric Co., Chicago. a Motors applied to street railways. A-4&5 775
b Motors applied to general machinery. 776
c Motors applied to novelties. 777
267. Westinghouse Electric Mfg. Co., Pittsburg, Pa. Motors applied to railways. Dept. F. 775
268. Wharton, Wm. Jr., & Co., Philadelphia. Street railway truck and rails. H-2 775
269. Wing, L. J., & Co., New York. Disc fans and motor; exhaust fans and ventilators. P-10 776
270. Zucker & Levett Chemical Co., New York. Pumps, cranes and organs. F-2 776
- GROUP 129.**
- Lighting by Electricity.**
271. Ansonia Electric Co., Chicago. a Arc systems. Z-1 778
b Incandescent systems. 779
272. Belknap Motor Company, Portland, Me. a Arc lighting appliances. E-2 778
b Incandescent lighting appliances. 779
273. Brush Electric Company, Cleveland, Ohio. a Arc system and appliances. L-6-7 778
b Incandescent system and appliances. 779
- For exhibit see page 673.
274. C. C. Electric Motor Co., New York. Power generators. A-2 779
275. Central Electric Co., Chicago. a Arc system. U-8 778
b Incandescent system. 779
276. Colburn Electric Mfg Co., Fitchburg Mass. Incandescent system. L-4 779
277. Commercial Electric Company, Indianapolis, Ind. Incandescent lighting and appliances. F-4 779
278. Cutter, Geo., Chicago. a Arc system fixtures. T-3 778
b Incandescent system fixtures. 779
279. Eddy Electric Co., Windsor, Conn. Power generators. B-3 778
F-1 779
- For exhibit see page 672
280. Electrical Specialty Company, Denver, Col. Push button socket. S-21-b 779
281. Electrical Forging Company, Boston. a Lamps, fixtures and appliances for arc lighting. D-2 778
b Incandescent systems. 779
- For exhibit see page 826.
282. Electric Selector & Signal Co., New York. Arc light cut-outs. 2-U-19 77
283. Elektron Manufacturing Company, Springfield, Mass. Incandescent lighting and appliances. P-4 779
284. Elwell-Parker Electric Construction Co. (of America) Chicago. a Arc systems. E-3 778
b Incandescent systems. 779
285. Excelsior Electric Company, New York. a Arc lamps and appliances. B-5 778
b Incandescent system and appliances. 779
286. Ford-Washburn Storelectro Co., Cleveland, Ohio. Incandescent lighting. U-15 779
- For exhibit see page 1003
287. Fort Wayne Electric Co., Fort Wayne, Ind. a Arc system fixtures. M-3 778
b Incandescent system fixtures. 779
- For exhibit see pages 498 and 645
288. General Incandescent Arc Light Co., New York. Arc lamps for incandescent circuits. E-6 778-779
289. General Electric Company, New York and Boston. a Search lights and arc system; luminous electrical fountains. B-4; C-1; Battle ship. 778
b Incandescent system. C-1; I-21; J-1; M-4; O-30; Intramural Railway. Battle ship; Exposition service. 779
290. General Fixture Company, New York. a Fixtures for incandescent light. Battle ship. 779
b Arc fixtures. B-4, C-1, I-1, J-1, M-4, N-1, O-3 778

DEPT. J.—ELECTRICITY AND ELECTRICAL APPLIANCES.

291. Greeley, E. S., & Co., New York.
a Arc lighting. F-8 778
b Incandescent lighting. 779
292. Hanson & Van Winkle Co., Chicago.
 Incandescent lighting. L-4 779
293. Healy & Millett, Chicago. Ornamental glass for electric effects. A-4-5 779
294. Heisler Electric Co., Philadelphia.
 Series lamps, cut-outs and sockets. O-4 779
295. Indiana Insulated Wire & Rubber Co., Jonesboro, Ind. Incandescent system. U-16 779
296. International Automatic Light & Power Co., Chicago.
a Arc lighting. U-3 778
b Incandescent lighting. 779
297. Jenny Electric Motor Co., Indianapolis, Ind. Incandescent system. L-2 779
298. Johns, H. W., Mfg. Co., New York.
 Appliances for incandescent lighting. U-21 779
299. K. A. P. Electric Novelty Co., La Crosse, Wis. Incandescent wiring system and socket. V-2 779
300. Mather Electric Company, Chicago.
 Systems of incandescent lighting. M-1&2 779
301. National Carbon Co., Cleveland, O.
 Arc light carbons. R, 7-b 778
 For exhibit see page 1000
302. New York & Ohio Co., Warren, Ohio. Incandescent lamps. U-16 779
303. North American Electric Co., New York. Rheostats for incandescent lamps. S-12 779
304. Paiste, H. T., Philadelphia.
a Appliances for arc system. S-22 778
b Appliances for incandescent system. 779
305. Phoenix Glass Co., Pittsburgh, Pa.
 Electroliers, globes, shades, etc. I-1 778
 For exhibit see page 677.
306. Railway Equipment Co., Chicago.
 Incandescent lamps and electroliers.
307. Rauda, Otto, New York. Electric scarf pin. Z-1 779
308. Sosman & Landis, Chicago. Scenic stages, curtains. A-4-5 779
309. Standard Electric Company, Chicago.
 Arc systems, lamps, fixtures and appliances. P-2 778
310. Standard Underground Cable Company, Pittsburgh, Pa. Lamp cord. L-5 779
311. Star Electric Lamp Co., Chicago. Incandescent lamps. Z-1 779
312. Star Iron Tower Company, Fort Wayne, Ind. Tower and mast arms for electric lights. R-8 778
313. Swan Lamp Manufacturing Company, Cleveland, Ohio. Incandescent lamps. L-6&7 779
314. Union Electric Works, Chicago. Incandescent lamps operated by batteries. T-23 779
315. Utica Electric Mfg. & Supply Co., Utica, N. Y. R-4
a Arc systems; pole stands; carbon holders. 778
b Appliances for incandescent system. 779
316. Walworth M'f'g Co., Boston. Railway and arc light poles. G-1 778
 For exhibit see page 486.
317. Western Electric Company, Chicago.
a Arc system and appliances. A-4&5 Dept. F 778
b Incandescent system and glass for light effects. G-1 779
318. Westinghouse Electric Mfg. Co., Pittsburgh, Pa.
a Arc system. Dept. F 778
b Incandescent system and plant. Dept. F 779
319. Zucker & Levett Chemical Co., New York.
a Fixtures for arc systems. F-2 778
b Fixtures for incandescent systems. 779

GROUP 130.

Heating by Electricity.

320. American Electric Heating Co., Boston.
a Apparatus for warming and heating by electricity. Z-1 780
b Electric heating appliances in industrial operations. 781
c Electric ovens. 782
d Electric furnaces. 783
321. Ansonia Electric Co., Chicago.
a Domestic heating apparatus. Z-1 780
b Industrial heating apparatus. 781
c Ovens.
322. Burton Electric Company, Richmond, Va.
a Electric heating appliances. A-7 780
b Apparatus for heating flat irons. 781
323. Cooper Electric Heater Company, Chicago. Electric heaters. T-7 780
324. Consolidated Electric Storage Co., Philadelphia. Storage batteries applied to heating. R-2 781
325. Cutter, Geo., Chicago.
a heating apparatus. T-3 780
b Car heaters, flat irons, etc. 781
326. Electrical Forging Co., Boston.
a Metal heating generators. D-2 781
b Heating apparatus. 783
 For exhibit see page 826.
327. Greeley, E. S., & Co., New York.
 Heating apparatus. F-8 781
328. International Automatic Light & Power Co., Chicago. Electric heating apparatus. U-3 780
329. Johns, H. W., Mfg. Co., New York.
 Asbestos sheathing and fire felt. U-21 783
330. K. A. P. Electric Novelty Co., La Crosse, Wis. Hair curler. V-2 781
331. Railway Equipment Co., Chicago.
a Heaters. F-1 780
b Industrial heating appliances. 781
c Ovens. 782
d Furnaces. 783
332. Western Electric Co., Chicago.
 A-4&5
a Industrial heating apparatus. 781
b High temperature ovens. 782

UNITED STATES.

GROUP 131.

Electro-Metallurgy and Electro-Chemistry.

333. Colburn Electric M'f'g Co., Fitchburg, Mass.
a Electrotyping. L-4 784
b Electroplating. 785
c Electro deposition of metals. 786
d Electrolytic separation processes. 787
334. Eddy Electric Manufacturing Company, Windsor, Conn.
a Electrotyping. B-3 784
b Plating, gilding, etc. 785
 For exhibit see page 672.
335. Electrical Forging Co., Boston. Electrolytic metal separation. D-2 787
 For exhibit see page 826.
336. Elwell-Parker Electric Construction Co. (of America), Chicago.
a Instruments for electro-chemistry. E-3 786
b Instruments for electro-metallurgy. 787
337. Excelsior Electric Company, New York.
a Electrotyping. B-5 784
b Electro plating, gilding and nickeling. 785
c Electro deposition of metals. 786
d Electrolytic separation of metals from ores. 787
338. General Electro Company, New York and Boston. Magnetic separator for separating iron ores. J-1 787
339. Greeley, E. S., & Co., New York. Electro plating, gilding, etc. F-8 785
340. Guillaume, Alfred, Chicago. Smelting furnace. T-4 787
341. Hall, C. F., Chicago.
a Method of electro-plating. U-17 785
b Electro-plated goods. 786
342. Hanson & Van Winkle Co., Chicago.
a Electrotyping. L-4 784
b Gilding and plating. 785
c Electrolytic separation of metals. 787
343. Johns, H. W., Mfg. Co., New York. Insulating material. W-21 786
344. McIntosh Battery & Optical Co., Chicago. Batteries for electro-plating, gilding and nickeling. W-3 785
345. Ringler, F. A., New York.
a Photo-electrotyping. R-1-a 784
b Electro-plating. 785
c Electro-deposition of metals. 786
346. Roessler & Hasslacher, New York. Isolated and isolatine paint. S-9 785
 For exhibit see page 425.
347. Zucker & Leavitt Chemical Co., New York.
a Electrotyping. F-2 784
b Electro-plating. 785
c Electro-deposition. 786

GROUP 132.

Electric Forging, Welding, Stamping, Tempering, Brazing, Etc.

348. Billings & Spencer Co., Hartford, Conn.
a Forged commutator bars. R-7a 788
b Construction tools. 789

349. Electrical Forging Co., Boston. Forgings, weldings and apparatus. D-2 788
 For exhibit see page 826

350. Phelps, A. H., Glens Falls, N. Y. Brazing and engraving. U-20-b 789
351. Thomson Electric Welding Company, Boston. Forging and welding of metals. O-35 788

GROUP 133.

Electric Telegraph and Electric Signals.

352. Ansonia Electric Co., Chicago. Annunciators. Z-1 792
353. Central Electric Co., Chicago.
a Telegraph instruments. U-8 790
b Annunciators. 792
c Thermostats. 793
d Fire alarm apparatus. 794
e Police telegraph apparatus. 795
354. Commercial Cable Co., New York. Automatic and multiplex transmitters. Y-2 790
355. Consolidated Electric Storage Co., Philadelphia. Signaling apparatus. R-2 796
356. Copenhagen Automatic Fire Alarm Co., Chicago. S-7a
a Thermostats. 793
b Fire alarm apparatus. 794
357. Edgerton, E. M., Chicago. Automatic guest call, annunciator and programme call. T-20a 792
358. Electric Heat Alarm Co., Boston. Thermostats. T-14c 793
 For exhibit see page 681.
359. Electric Magneto Clock Co., Boston. Electric clocks. D-2 791
360. Electric Selector & Signal Co., New York.
a Secret telegraph service. U-19 790
b Railroad block signals. 796
361. Electric Thermostat Co., Minneapolis, Minn. Electric automatic thermostat. Z-1 793
362. Elwell-Parker Electric Construction Co. (of America) Chicago. Railroad signal apparatus. E-3 796
363. Fere, Malcolm de la, Minneapolis, Minn. Railroad signal devices. T-10 796
364. Gamewell Fire Alarm Telegraph Company, Chicago.
a Fire alarm. V-1 794
b Police telegraph system. 795
365. General Electric Company, New York and Boston. Dynamos for quadruplex telegraphic service. J-1 791
366. Goldfuss, O. F., Chicago. Electric automatic clocks. T-13-B 790
367. Gray, Elisha, Highland Park, Ill. Writing telegraph apparatus. W-5 790
368. Greeley, E. S., & Co., New York.
a Systems for transmitting and receiving. F-8 790
b Chronographs. 791
c Annunciators. 792
d Thermostats. 793
e Fire alarm apparatus. 794
f Police and burglar alarm apparatus. 795
g Railroad signal apparatus. 796
369. Holmes, Nathaniel L., Ann Harbor, Mich. Dining service. W-1 790

DEPT. J.—ELECTRICITY AND ELECTRICAL APPLIANCES.

370. Hurd, John F., Chicago. Electric coat-thief and pickpocket detector. S-13 795
371. Lawton, Harry A., & Mott, Kennon, Brunswick, Ga. Electrical call and clock annunciator. Y-45b 792
372. Lee, Charles E., Chicago. Annunciator. S-20 792
373. McCaskey, Alfred S., and Ellis, J. A., Chicago.
a Printing telegraph. T-11-b 790
b Electric program clock. U-11-b 791
c Railway block signal. 796
374. National Automatic Fire Alarm Co., New York. Fire alarm apparatus. A-3 794
375. Newman Clock Mfg. Co., Chicago. Annunciators; guest calls; alarm signals. Y-40 792
376. Police Telephone & Signal Co., Chicago. Police telephone and signal apparatus. V-1 785
377. Rauscher, John, St. Paul, Minn. Push buttons. T-13c 790
378. Striemer, A., Hayward, Wis.
a Guest call apparatus. T-13d 790
b Fire alarm indicator 794
379. Standard Electric Signal Co., Rochester, N. Y.
a Thermostats. S-6b 793
b Automatic fire alarm system. 794
380. Strowger Automatic Telephone Exchange, Chicago. Transmitting and receiving apparatus. T-7 790
381. Tate, D. D., Chicago. Model of block signal system. Y-37 796
382. Todd, John T., Chicago. Systems of transmitting and receiving. S-4 790
384. Western Electric Co., Chicago.
a Systems of transmitting and receiving. A-4&5 790
b Annunciators. 792
c Thermostats. 793
d Fire alarm apparatus. 794
e Police telegraph and burglar alarm apparatus. 795
385. Wilder Duplex Electric Burglar Alarm & Messenger Co., Chicago.
a Messenger box. A-6-a 794
b Burglar alarm. 795
- GROUP 134.**
- The Telephone and its Appliances. Phonographs.**
386. American Bell Telephone Co., Boston. Exhibit of history and development of telephony. G-1 804
387. American Graphophone Co., Washington, D. C.
a Phonographs. S-14 806
b Talking machines. 807
388. Brixey, W. R., New York. Telephone cables. T-2 797
 For exhibit see page 687.
389. Central Electric Co., Chicago.
a Telephone cables. U-8 797
b Telephone switchboards. 799
c Telephone transmitting apparatus. 800
390. Consolidated Electric Storage Co., Philadelphia. Storage batteries applied to telephones. R-2 804
391. Electric Selector & Signal Co., New York. Telephone signaling apparatus. U-19 802
392. Elgin Telephone Company, Elgin, Ill. Acoustic telephone and apparatus. T-13-a 804
393. Greeley, E. S., & Co., New York.
a Telephone cables. F-8 797
b Protective devices. 798
c Switchboards. 799
394. Marcus, Wm. N., Philadelphia. S-6-a
a Telephone mouth-piece. 800
b Rest for telephone receiver. 806
395. McCasky, Alfred S., & Ellis, J. A., Chicago. Automatic telephone exchange. U-11-b 799
396. North American Phonograph Company, Chicago. Phonographs and appliances. S-2 806
397. Norwich Insulated Wire Co., New York. Telephone cables. T-16-a 797
398. Sponholz, Clare L., Lowell, Mass. Telephone register directories. T-20-b 805
399. Standard Underground Cable Company, Pittsburg, Pa.
a Telephone cables. L-5 797
b Protective devices. 798
c Wire. 799
d Devices for telephone operations. 804
400. Strowger Automatic Telephone Exchange, Chicago.
a Switchboards. T-7 799
b Operation of telephones. 804
401. Washburn & Moen Mfg. Co., Worcester, Mass. Telephone cables and wires. V-3 797
402. Western Electric Co., Chicago.
a Telephone appliances. A-4&5 804
b Phonographs. 806
403. Wullweber, O. L., Chicago.
a Telephone transmitting apparatus. T-13-E 800
b Telephone receiving apparatus. 801
- GROUP 135.**
- Electricity in Surgery, Dentistry and Therapeutics.**
404. Consolidated Electric Storage Co., Philadelphia. Cautery apparatus. R-2 808
 Surgical and dental apparatus. U-6 809
405. Electro Medical Battery Company, Kalamazoo, Mich. Pocket battery. S-7-b 809
406. General Electric Company, New York and Boston. Dental drill. H-2 809
407. Greeley, E. S., New York.
a Cautery apparatus. F-8 808
b Surgical and dental apparatus. 809
408. K. A. P. Electric Novelty Co., La Crosse, Wis. V-2
a Dynamic cautery apparatus. 808
b Surgical apparatus. 809
409. McIntosh Battery & Optical Co., Chicago. Batteries and instruments applied in surgery, dentistry, etc. W-3 809
410. Meeker, Dr. G., Newark, N. J. Apparatus for physicians' use. S-23-b 809
411. Meyrowitz, E. B., New York. Electrodes. W-2 809
412. Owens, Dr. A., Chicago. Apparatus for application of electrical current. T-1 809
 For exhibit see page 686.

UNITED STATES.

413. Pratt Electric Medical Supply Company, Chicago.
a Cautery apparatus. U-11-a 808
b Appliances for therapeutic work and surgical and dental remedial agencies. 809
c Microphonic stethoscope. 810
d Batteries and appliances for electrolysis. 811
414. Queen & Co., Philadelphia. Cautery apparatus. E-7 808
415. Union Electric Co., New York.
a Cautery apparatus. F-3 808
b Apparatus for diagnosis. 810
416. Vetter, J. C., & Co., New York.
a Cautery apparatus. W-2 808
b Surgical and dental apparatus. 808
c Apparatus for diagnosis. 810
417. Webb, G. F. Cleveland, Ohio.
a Cautery appliances. Y-44 808
b Appliances for therapeutic purposes. 809
c Apparatus for diagnosis. 810
418. White, S. S., Dental Manufacturing Company, Philadelphia. Dental surgical apparatus. U-27 809

GROUP 136.

Application of Electricity in Various Ways not Hereinbefore Specified.

419. Central Electric Co., Chicago. Pens. U-8 814
420. Commercial Cable Co., New York. Writing apparatus. Y-2 814
421. Cutter, Geo., Chicago. Gas lighting. T-3 812
422. Electric Gas Company, Boston. Ignition of explosives, etc. U-13-b 812
423. Franklin Electric Appliance Co., Boston.
424. Haltzer Carbon Electric Co., Boston. Electric automatic burner. Z-1 812
 ton. Heat regulator appliances. S-1 813
425. Knapp, Geo. S., Chicago. Historical collection of lightning rods. S-10 816
426. Lee, Charles E., Chicago. Temperature regulator. S-20 813
427. Sloss Electric Gaslight & Specialty Co., Chicago. Electric gaslights. A-6-A 812
428. Vetter, J. C., New York. Ignition of explosives, etc. W-2 812
429. Western Electric Co., Chicago.
a Ignition of explosives and gas lighting. A-4&5 812
b Pens. 814
430. Wing, L. J., & Co., New York. Isolated electric lighting. P-10 812

GROUP 137.

History and Statistics of Electrical Inventions.

431. Central Electric Co., Chicago. Publications. T-9 817
432. Electrical Engineer, New York. Electrical books and publications. Y-30 816
433. Electrical Industries Publishing Company, Chicago. Electric books and publications. Y-27 817
434. Electrical Review, New York. Electrical books and publications. Y-33 817
435. Electrical World, New York. Electrical books and publications. Y-28 817

436. Electricity Newspaper Company, New York. Electrical books and publications. Y-32 817
437. General Electrical Company, New York and Boston. C-1 816
a Historical models. 816
b Historical works. 817
438. Gray, Elisha, Highland Park, Ill. Objects illustrating electrical development. W-5 816
439. McIntosh Battery & Optical Co., Chicago. Apparatus illustrating the phenomena of electricity. W-3 816
440. National Engraving Machine Co., Chicago. Jewelers' engraving machine. S-8 816
441. Thomson Electric Welding Co., Boston. Objects illustrating electrical progress. O-2 816
442. Western Electric Co., Chicago. Objects illustrating electrical progress. A-4&5 816
443. Western Electrician, Chicago. Electrical books and publications. Y-31 817
444. Western Union Telegraph Company, Chicago. Collective exhibit. V-8 816

GROUP 138.

Progress and Development in Electrical Science and Construction, as Illustrated by Models and Drawings of Various Countries.

445. Gray, Elisha, Highland Park, Ill. Models and drawings. W-5 818
446. Western Electric Co., Chicago. Models and drawings. A-4&5 818

GROUP 138 A.

Construction and Repairs.

447. Billings & Spencer Co., Hartford, Conn.
a Construction and repairing tools. R-7 a
b Commutators, bars and rings, nuts and eye bolts. g
448. Briggs, Orlando P., Chicago. Attachment for automatic machine. A-4 & 5 a
449. Case, J. L., Engine Company, New Britain, Conn. Engines driving dynamos. C-1 & Dept. F. b
450. Casper, Louis, Cheyenne, Wyo. Attachment for making perforated tape. S-21 a
451. Curtis Electric Manufacturing Company, Jersey City, N. J. Apparatus used in electrical construction. F-7 a
452. Diamond Mills Emery Co., Philadelphia. Powdered and grained emery. L-4 a
453. Edison, Thomas A., Orange, N. J. Kinetograph. J-1 h
454. Electric Forging Company, Boston.
a Construction tools and apparatus. D-2 a
b Application of metals in electrical construction. g
 For exhibit see page 826.
455. Electric M'f'g Co., Dayton, Ohio. Pulleys and wire holders. Z-1 a
456. Electric Pipe Bending Co., Harrison, N. J. Coil, pipe and round wire. O-2 a
457. Eureka Tempered Copper Company, North East, Pa. Tempered copper articles. U-14 g

DEPT. J.—ELECTRICITY AND ELECTRICAL APPLIANCES.

458. Falls Rivet & Machine Co., New York. Line shafting, clutches, etc. M-3 b
459. General Electric Company, New York and Boston. Patent exhibits. J-1 618
460. General Electric Company, New York and Boston.
a Apparatus for electrical construction and repair. C-1; H-2; M-4; O-3; PP. Dept. F; Intramural railway. Battle ship. a
b Water wheel coupled to dynamos. N-1 b
c Carbon and its application. B-4 d
d Metals for construction of electrical apparatus. O-3
e Direct coupled engine dynamos. C-1; J-1; O-3; PP. Dept. F. g
f PH. Intramural railway; Battle ship. j
461. Graton & Knight M'f'g Co., Worcester, Mass. Belting. A-4-5 b
462. Illinois Alloy Co., Chicago. Aluminum bushing; anti-friction metal. T-14-b g
463. Ingersoll-Sergeant Drill Company, New York. Air compressor. N-1 b
464. Jewett Supply Co., Boston. Automatic friction device for car bodies. Dept. G b
465. Lake Erie Engineering Works, Buffalo, N. Y. Engines applied to electric motors. O-3 & Intramural Ry. PP. b
466. Merrill Bros., Brooklyn, N. Y. Drop hammer and tremining press. D-2 a
467. Munson, Chas., Belting Company, Chicago. Dynamo belting. D-4 b
468. McIntosh, Saynour & Co., Auburn, N. Y. Engines driving dynamos. C-1 b
469. National Carbon Co., Cleveland, O. Carbon brushes. R-7-b d
470. Oehring, A. J., Chicago. Multiple drill press. A-4&5 a
471. Pelton Water Wheel Company, San Francisco, Cal. Water wheel. N-1 b
472. Pelton Water Wheel Co., San Francisco, Cal. Water wheel. B-1-2 b
473. Reliance Gauge Co., Cleveland, Ohio. Water gauges and floats. T-5 a
474. Standard Underground Cable Company, Pittsburg, Pa. Cable construction tools. L-5 a
475. Stevens, N. P., Concord, N. H. Splicing electric light carbons. T-14-a d
476. Walworth M'f'g Co., Boston. Railway and arc light poles. H-2 a
477. Webster Manufacturing Company, Chicago. Shafting pulleys and clutches. Dept. F b
478. Western Electric Company, Chicago.
a Electrical construction apparatus. A-4&5 a
b Carbon and its application. d
c Application of metals in electrical construction. g

American Electric Works, Providence, R. I.

For exhibit see page 654.

W. S. Edwards M'f'g Co., Chicago, Ill. Electric light fixtures.

For exhibit see page 480.

Knapp Electric Co., Chicago, Ill. Electrical supplies.

For exhibit see page 674.

AUSTRIA.

GROUP 122.

1. Goriup, Giuseppe, Goerz. Electrical apparatus. 778
2. Gruenwald & Sergle, Vienna. Electricians' supplies.

GROUP 123.

3. Kraetschmer Heinrich, Vienna. Turned goods for electro-technical purposes.

GROUP 128.

4. Handowsky, Steiner & Frank, Vienna. Automatic electric engraving machine. 776

GROUP 129.

5. Czerwinka & Co., Prague. Electric lamps.

6. Hardtmuth & Co., Vienna. Electrical coal tops. 778

GROUP 131.

7. Schulmeister, Ludwig, Vienna. Electro-galvanic apparatus.

GROUP 133.

8. Silas, Ferdinand, Vienna. Electrical signal clocks.

GROUP 136.

9. Danner Carl, Vienna. Control apparatus. 818

CANADA.

GROUP 125.

1. Brintnell, A. N., Montreal. Dynamo. 765

GROUP 126.

2. Owners' Lake Girard Mine, Ottawa, Ont. Mica edges. 770

GROUP 133.

3. Brintnell, A. N., Montreal. Fire alarm. 794

GROUP 134.

4. Ness, T. W., Montreal. Telephone switchboard and electrical supplies. 799
5. Rosebrugh, A. M., Toronto. Telephone circuits. 804

GROUP 138.

6. Reid, Chas. G. L., Victoria, B. C. The R. Davidson historical exhibit, drawings of models of electric motors, cars, electric locomotive, photographs and prints. P-6 819

FRANCE.

GROUP 122.

1. Carpentier, J., Paris. Thermo electric batteries. 758
2. Carre, E. E., Paris. Electrostatic machine. 757
3. Ducretet, E., et Lyeune, Paris. Apparatus for producing and using statical electricity. 757
4. Dumoulin Froment, et Doignon, Paris. Ship's compass. 759
5. Gaiffe, G. E., Paris.
 - a Instruments for producing and using statical electricity. 757
 - b Induction coils, terminals. 760
6. Maison Breguet, Paris.
 - a Statical electricity, whims burst machine. 757
 - b Magnets, marine compass. 759

GROUP 123.

7. Carpentier, J., Paris.
 - a Standard resistance coils and boxes; Wheatstone bridge. 761
 - b Standard condensers. 762
 - c Instruments of precision; galvanometers, etc. 764
8. Ducretet, E., et Lyeune, Paris. Instruments of precision and apparatus devised for teaching. 764
9. Dumoulin Froment, et Doignon, Paris. Instruments of precision. 764
10. Maison Breguet, Paris. Measuring instruments. 764
11. Richard, J., Paris. Instruments of precision. 764

GROUP 124.

12. Direction Generals des Postes et des Telegraphs, Paris. Plante's secondary battery.

DEPT. J.—ELECTRICITY AND ELECTRICAL APPLIANCES.

13. Gaiffe, G. E., Paris. Graduated batteries.
 14. Leclanche et Cie, Paris. Leclanche batteries.
 15. Peyrusson, E., Limoges. Storage batteries.

GROUP 125.

16. Bourdeaux, L., Paris. Brushes for dynamo machines. 765
 17. Desroziers, E. L., Paris. Dynamo machines. 765
 18. Houry et Cie, Paris. Dynamos. 765
 19. Maison Breguet, Paris. Dynamo machines. 765
 20. Santter, Tlarle' et Cie, Paris. Dynamo machines, search lights and instruments. 765
 21. Societe Gramme, Paris. Gramme machines. 765

GROUP 126.

22. Aboilard, G., et Cie, Paris. Cables. 739
 23. Amizan, Paris. Artificial lines, system Amizan and De Branville. 771
 24. Cadot, P., Mareimes (Charente Inferieure). Registering meters. 769
 25. Carpentier, J., Paris. Rheostats, ammeters, voltmeters, etc. 769
 26. Desroziers, E. L., Paris. Electric meter. 769
 27. Direction Generale des Postes et des Telegraphs, Paris.
 a Insulators, joints, etc., for aerial telegraph. 769
 b Underground conduits. 771
 28. Gaiffe, G. E., Paris. Ammeters, voltmeters. 769
 29. Houry et Cie, Paris. Electric cables and insulated wires. 769
 30. Jacot, J. E., Paris. Pole equipped for the connection between underground and aerial lines. 771
 31. Maison Breguet, Paris. Ammeters and voltmeters. 769
 32. Milde, C., Paris. Lightning rods; model of building equipped with a system of lightning rods. 770
 33. Richard, J., Paris. Ammeters, voltmeters, registering meters. 769
 34. Societe du Cable Fortin Herrmann, Paris. Cables for telegraph and telephone. 769
 35. Societe Gramme, Paris. Regulators for continuous and alternating currents. 770
 36. Weiller, L., et Cie, Paris.
 a Cables, wires. 769
 b Objects for the construction of electric lines. 771

GROUP 128.

37. Bertrand, P. H., Paris. Electrical materials. 769
 38. Compagnie de towage de lo Bosse Seine et de l'Vise, Paris. Towing vessel based on magnetic adherence. 776
 39. Delostal, P., Paris. Apparatus told "Electric match." 777
 40. Henneguain, L. A. A., Beauvais. Electric signaling system for collection of letter-boxes. 790
 41. Henneguain, L. A. A., Beauvais. Electric clocks. 777

42. Kratz Boussae, Paris. Electrical lighting instrument for medical purposes. 777
 43. Milde, C., Paris. Electric clocks. 777
 44. Ricaris, C. de, Paris. Tuning and physiological phonometers. 777
 45. Ricaris, C. de, Paris. Telephone instruments. 777

GROUP 129.

46. Barbier, F., et Cie, Paris. Lenses and apparatus for electric light houses. 778
 47. Maguaire, F. V., Paris. Arc lamp. 778
 48. Pulsford, Frignet et Cie, Paris. Incandescent lamps. 779
 49. Societe Gramme, Paris. Incandescent lamps. 779
 50. Societe toulousaine l'electricite, Toulouse. Electric light apparatus. 778

GROUP 131.

51. Bernard Freres, Paris. Electrolytically separated aluminum. 787
 52. Bertrand, P. H., Paris. Electro-deposition of magnetic oxide on iron. 786
 53. Christoffe et Cie, Paris. Electric reproduction of old and precious metal works, from the originals in Versailles Le Louvre, etc. 786
 54. Direction Generale des Postes et des Telegraphes, Paris. Electric furnace of Mr. Moissan and its products. 787
 55. Ducretet, E. et Lyeune, Paris. Machinery for producing hydrogen gas by electrolysis of water. 787
 56. Lobitte, C., Paris. Electro-deposition of metals. 786

GROUP 132.

57. Piat, A., et ses fils, Paris. Electrical riveting machine. 789

GROUP 133.

58. Carpentier, J., Paris. Telegraph instruments. 790
 59. Direction Generale des Postes et des Telegraphes, Paris.
 a Telegraph instruments. 790
 b Fire alarm apparatus, petit system. 794
 60. Dumoulin Froment et Doignon.
 a Telegraph instruments. 790
 b Chronograph. 791
 61. Gras, J. J., Paris. Field instruments, sounders, etc. 790
 62. Mercadier, E., Paris. Mono-telephone and system of multiplex telegraph. 790
 63. Milde, C., Paris.
 a Thermostats. 793
 b Fire alarm apparatus. 794
 64. Munier, C. J. A., Paris. Electrical printing apparatus. 790
 65. Munier, C. J. A., Paris. Telegraphic systems. 790
 66. Milde, C., Paris. Telephone instruments. 777

GROUP 134.

67. Aboilard, G., et Cie, Paris.
 a Switch boards. 799
 b Signaling apparatus. 802

FRANCE.

68. Direction Generale des Postes et des Telegraphes, Paris.
a Telephone cables. 797
b Switch boards, transmitting and receiving apparatus. 799
69. Meradier, E., Paris. Bi-telephone. 801
70. Mercadier et Anizan, Paris. Microphone. 800
71. Milde, C., Paris.
a Telephone switch boards. 799
b Microphones. 800
c Receiving telephones. 801
d Signaling apparatus. 802
72. Ricaris, C. de, Paris. Telephones and signaling apparatus. 802
73. Societe du cable Fortin Herrmann, Paris. Telephone cables heads and joints. 797

GROUP 135.

75. Ducretet et Leyeune E., Paris. Electric musical apparatus. 809
76. Gaiffe, G. E., Paris. Electrical instruments for medical purposes. 809
77. Maison Brequet, Paris. Electrical apparatus. 809

GROUP 136.

78. Maison Brequet, Paris. Explosives for mines. 812

GROUP 137.

79. Baudry et Cie, Paris. Books on electricity. 817
80. Carre, G., Paris. "L' Electricien." International Review on Electricity. 817

81. Conservatoire National des Arts et Metiers, Paris. Objects illustrating the development of electric telegraphy. 816
82. Direction Generale des Postes et des Telegraphes, Paris. Objects and books illustrating the development of electric science. 817
83. E. Ducretet et Leyeune, Paris. Instruments illustrating scientific discoveries and teaching electricity. 845
84. Laboratoire Central l'e'lectrecite', Paris. Transformer. 816
85. Societe Gramme, Paris. First dynamo machines constructed by M. Gramme. 816
86. Tignol, Bernard, Paris. Books on electricity. 817

GROUP 138.

87. Carre, E. E., Paris. Carbons, batteries, microphones, motors, collectors, etc. d
88. Conservatoire National des Arts et Metiers, Paris. Models of historical telegraph instruments. 819
89. Direction Generale des Postes et des Telegraphes, Paris. Objects of historical interest in general electricity. 819
90. Gras, J. J., Paris. Tools for the construction of telegraph poles. a
91. Hillairet, Paris. Illustrating the transmission of energy at Domene (Isere). 819
92. Laboratoire central l'e'lectricite', Paris. Photographs of the laboratory. 819
93. Letrange et Cie, L., Paris. Electrolytic zinc. a
94. Rosemann, A., Paris. Electrical apparatus for metal engraving. c

GERMANY.

GROUP 123.

1. Allgemeine Elektrizitats Gesellschaft, Berlin. Surveying instruments and electric watches. 764
2. Aron, Prof., Berlin. Electrometers. 764
3. Berg, Emanuel, & Co., Berlin. Electric logs. 764
4. Hartmann & Braun, Bockenheim, Frankfurt, a-M. Electrical surveying instruments. 764
5. Lessing, Dr. Albert, Nuremberg. Galvanic batteries. 763
6. Pollak, Charles, Frankfort a-M. Accumulators. 762
7. Physikalisch-Technische, Reichsanstalt, Charlottenburg. Scientific apparatus. 764
8. Siemens & Halske, Berlin. Surveying instruments. 764
9. Weuste, Ch., Luisburg. Electric water-level indicator. 764

GROUP 125.

10. Allgemeine Elektrizitatsgesellschaft, Berlin. Dynamo machine and electrometers. 765
11. Siemens & Halske, Berlin. Central station dynamo with steam engine. 767

GROUP 126.

12. Berg, Emanuel, & Co., Berlin. Safety instruments. 770
13. Felten & Guilleaume, Muhlhausen a-Rh. Cables and transmitting material. 769
14. Harrach, George, Munich. Lightning rods. 770
15. Helberger, H., Munich. Cable reckoning apparatus. 769
16. Schomburg, H., & Sons, Berlin. Insulators and insulating material. 770
17. Zwarg, Julius Otto, Freiberg, Saxony. Model of lightning rod. 770

GROUP 127.

18. Nagl, Gebr., Berlin. Electric motors. 773
19. Pokomy & Wittekind, Frankfort a-M. Electric motors. 773
20. Siemens & Halske, Berlin. Electric motors. 773

GROUP 128.

21. Allgemeine Elektrizitats Gesellschaft, Berlin. Street cars. 775
22. Siemens & Halske, Berlin. Electric street railway. 775

DEPT. J.—ELECTRICITY AND ELECTRICAL APPLIANCES.

GROUP 129.

23. Allgemeine Elektrizitäts Gesellschaft, Berlin. Stage lighting apparatus and arc lamps. 779
24. Berg, Emanuel, & Co., Berlin. Marine signal lights. 778
25. Konz, Gustav, Hamburg. Marine signal lights. 778
26. Daimler, Motoren Gesellschaft, Cannstatt. Illuminating wagons. 779
27. Körting & Matthiesen, Lipzig. Arc lights. 778
28. Pollak, Charles, Frankfort a-M. Mining lamps. 779
29. Schuckert & Co., Nuremberg. Search lights. 778
30. Seifert, K. M., Dresden. Illuminating fixtures. Dept. H 779
31. Siemens & Halske, Berlin. Arc lamps. 778

GROUP 133.

32. Reichspost-Amt, Berlin. Telegraph apparatus.
33. Seitz & Linhardt, Aschaffenburg. Telegraphic apparatus.
34. Siemens & Halske, Berlin. Signal apparatus. 796

GROUP 134.

35. Berliner, J., Hanover. Telephone apparatus.
36. Reichspost-Amt, Berlin. Telephone apparatus.
37. Stocker & Co., Liepzig - Plagwitz. Telephone apparatus.

GROUP 138.

38. Pollak, Charles, Frankfort a-M. Railroad models. 819
39. Von Miller, Oscar, Munich. Plans and description of electric central stations. Dept. G 819

GROUP 138 A.

40. Lubszynski, Sigismund, Berlin. Electric engraving apparatus. c
41. Miner, Wilhelm, Arnstatt, Thuringia. Carbon for Leclanche elements. d
42. Nurnberger Beleuchtungskohlenfabrik, Doos, near Nuremberg. Carbon pencils for illumination. d
43. Schichau, F., Elbing. Steam engine connected with dynamo. b
44. Schmelger, Ch., Nuremberg. Illuminating carbon. d
45. Siemens Bros. & Co. Carbon pencils for illumination. d

GREAT BRITAIN.

GROUP 123.

1. General Electric Company, Ltd., London. Electrical measuring apparatus. 764

GROUP 124.

2. Epstein Electric Accumulator Company, London. Electric accumulators.

GROUP 125.

3. Parsons, C. A., & Co., Newcastle-on-Tyne. Steam turbine dynamos.

GROUP 126.

4. Ewing, Robert, London. Underground conduits. 771
5. General Electric Company, Ltd., London.

- a* Switches; switchboards. 769
b Cut-outs; wall-plugs; rosettes. 770

GROUP 129.

6. General Electric Company, Ltd., London.
a Arc electric lighting systems. 778
b Incandescent lighting systems and fittings. 779

GROUP 130.

7. General Electric Company, Ltd., London. Electric heaters. 780

GROUP 131.

8. Ash, Gill & Co., Birmingham. Electro-depositing process. 786
9. London Metallurgical Company, Ltd., London. Electro silver plating. 785

GROUP 133.

10. Anders, G. L., & Kottgen, London.
a Printing telegraph. 790
b Signaling apparatus. 796
11. General Electric Company, Ltd., London. Railroad signal apparatus. 796
12. Phonophore Company, Ltd., London. Telegraph apparatus. 790

GROUP 134.

13. Anders, G. L., & Kottgen, London.
a Telephones and telephone apparatus. 804
b Phonographs. 806
14. General Electric Company, Ltd., London.
a Conductors. 797
b Switch boards. 799
c Transmitting apparatus. 800
d Receiving apparatus. 801
e Signaling apparatus. 802
f Telephones. 804
15. Homacoustic Speaking Tube Company, London. Commutator with electric signaling device. 802

GROUP 136.

16. General Electric Company, Ltd., London. Electric gas lighting. 812
17. Lorrain, J. G., London. General application of electric motors.

GROUP 137.

18. British Government, London. Historical telegraphic apparatus dating from 1837, including the first specimen of underground work practically used; early five-needle and double-needle instruments, Cooke and Wheatstone's A B C telegraph; early forms of Wheatstone's automatic telegraph; Bain's first chemical telegraph; modern telegraphic apparatus, as used by the British Postal Telegraph Department; single needle A B C sounders and Bright's bed; British type of Delany and quadruplex apparatus; fast speed repeaters; pneumatic tube signaling instruments; telephonic switchboards and apparatus. 816

ITALY.

GROUP 126.

1. Carli-Conti, Dr. Giuseppe, Castelnovo Garfagnana. Electrical pile.
2. Richard Ceramic Society, Milan. Insulators. 770

GROUP 131.

3. Turati, Vittorio, Milan. Electrotyping. 784

NORWAY.

GROUP 134.

1. Aktiebolaget Hermes, Christiania. Telephonograph. Dept. H 807

GROUP 136.

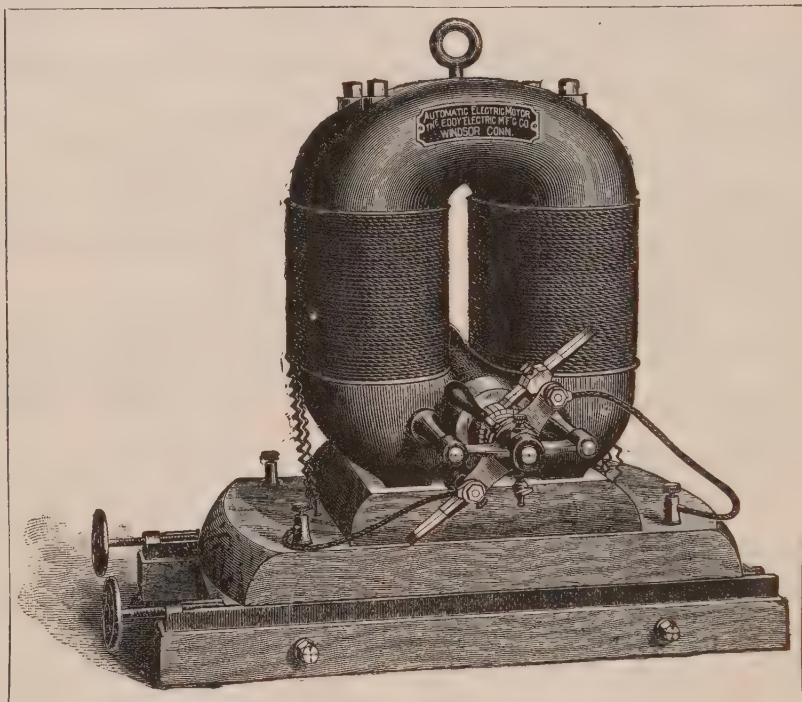
2. Aktiebolaget Hermes, Christiania. Lighting and extinguishing apparatus. Dept. H 812

THE EDDY ELECTRIC MFG. CO.

WINDSOR, CONN.

HAVEMEYER BUILDING,
NEW YORK.

MONADNOCK BUILDING,
CHICAGO.



—MANUFACTURERS OF—

Electric Motors and Generators

FOR LIGHTING AND POWER.

Particular attention given to the complete equipment of
factories with Electric Power.

THE EDDY DYNAMO FOR

 ELECTRO PLATING AND ELECTROTYPING.

Six Questions

IS IT a DYNAMO ?

IS IT a Generator ?

IS IT a Motor ?

IS IT a Lamp ?

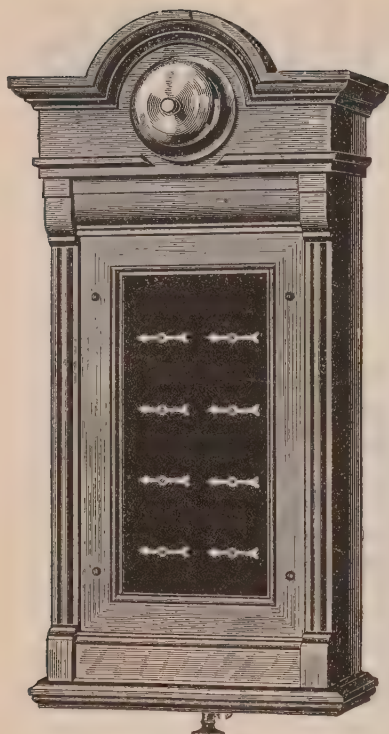
IS IT a Railway ?

IS IT ELECTRICAL ?

One Answer

The Brush Electric Company,

Cleveland, Ohio, have it.



MORE THAN

ONE POINTER

THIS CUT SHOWS EIGHT.

Some Annunciators have quite a few.

Knapp Makes Them
Any Size

ANOTHER POINT

WHEN YOU WANT ANY POINTER ON

WIRE BARE AND ***
* * INSULATED * *

SOCKETS,	BATTERIES, BELLS,
SWITCHES,	SPEAKING TUBES,
GUTOUTS,	ETC., ETC.

◀ — IN TRUTH AN — ▶

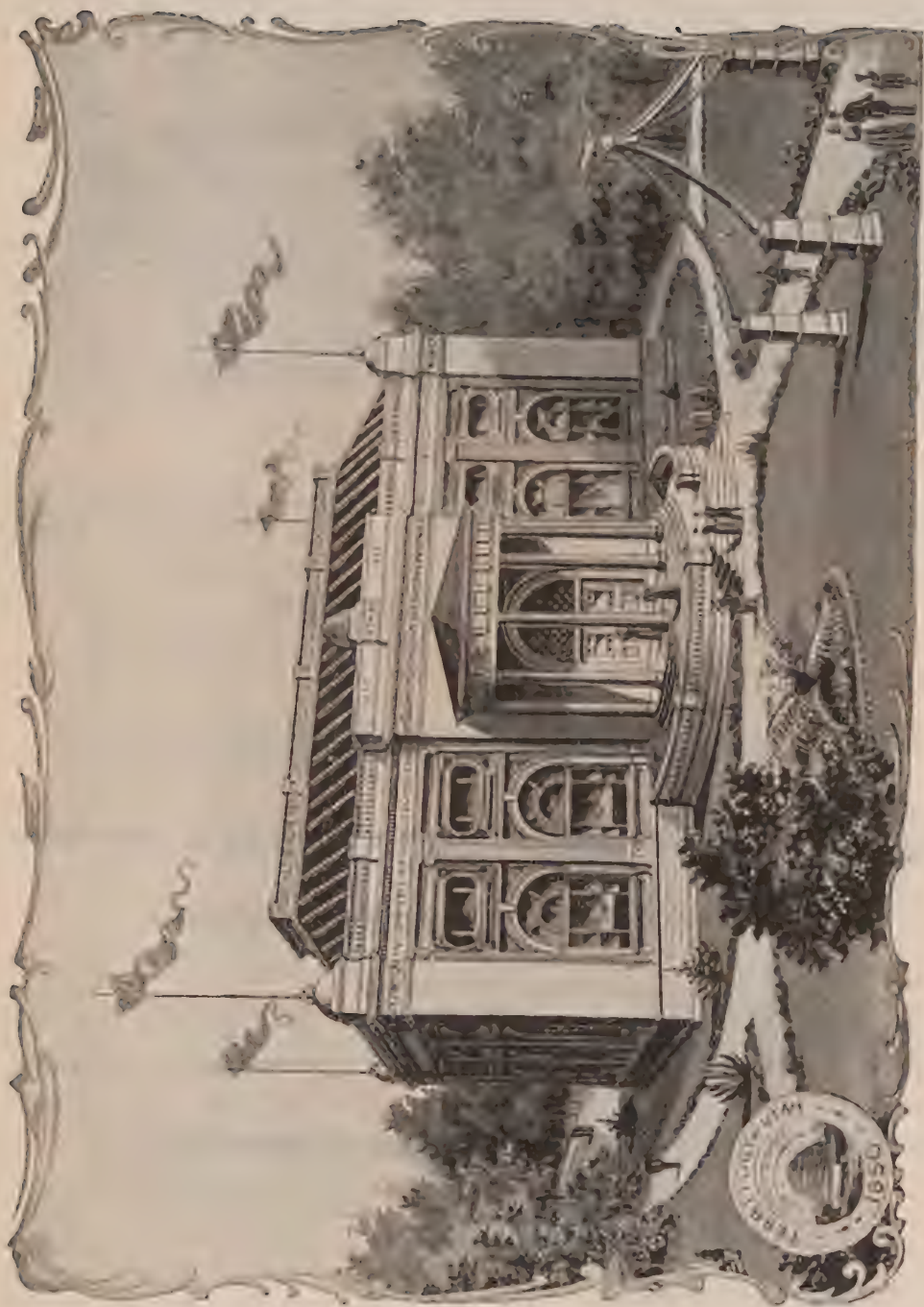
©© EMPORIUM ELECTRICAL ©©

EVERYTHING YOU NEED IS
* FOUND AT *

The Knapp Electrical Works

54-56 FRANKLIN STREET,

CHICAGO, - - ILLINOIS.



UTAH TERRITORIAL BUILDING.

AN IDEAL INVALIDS' HOTEL.

LINCOLN PARK SANITARIUM

Corner of Deming Court and Lake View Avenue.

ERECTED FOR THE CURE OF THE CHRONICALLY SICK.

No Contagious or Objectionable Cases Received.

A building beautifully located on the margin of Lincoln Park.

ROOMS ELEGANTLY FURNISHED.

A Sanitarium thoroughly equipped with all modern measures.

Two Kitchens: the diet kitchen for special, and a general one for convalescents.

Trained nurses and skillful physicians always in attendance.

Every comfort and requirement for successful treatment.

DELIGHTFUL HOME IN WHICH TO RECOVER.

For particulars address

Dr. T. E. COSTAIN,

Manager.

PHOENIX GLASS CO.
 MANUFACTURERS OF
 ELECTRIC LIGHT GLOBES ETC.
 THE LARGEST LINE OF
 NOVEL & ARTISTIC PATTERNS & EFFECTS.
 42 MURRAY ST. N.Y.

SEND FOR CATALOGUE.

CHICAGO BRANCH, 19 AND 21 WABASH AVE.

WORKS NEAR PITTSBURG, PA.

Our Exhibit located in center of Electrical Building.

PHOENIX GLASS CO.,

FABRICANTES DE

Globos para Luz Electrica

— GRAN SURTIDO DE —

MODELOS NUEVOS Y ARTISTICOS,

**43 Sixth Avenue,
 PITTSBURG, PA.**



**42 Murray Street,
 NEW YORK.**

Deposito en Chicago, 19 y 21 Wabash Avenue.

Nuestra Exhibicion en el centro del Edificio de la Electricidad.

Talleres Cerca de Pittsburg, Pa.

Se mandan Catalogos al que los pida.



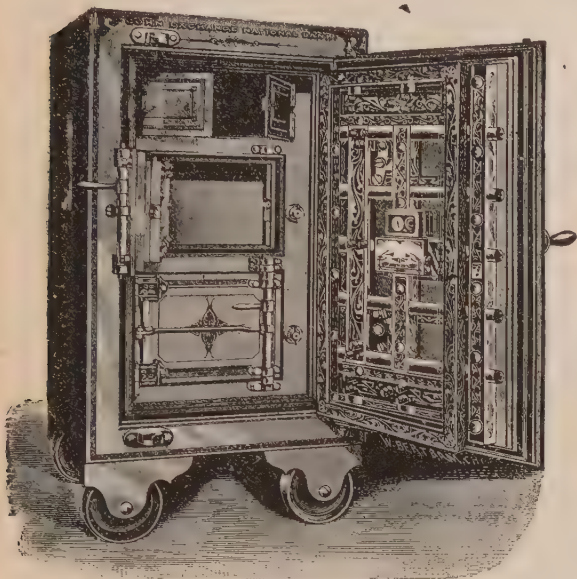
WASHINGTON STATE BUILDING.

AMERICAN VAULT, SAFE AND LOCK CO.

ELIZABETH, PA.

The Most Complete Safe Factory in the World.

Our recent patents cover the best improvements
ever made in Fire and Burglar Proof construction.



Fire and Burglar Proof Safes.
Gem Time Locks.
Little Giant Automatic Bolt Oper-
ating Device.
Fire and Burglar Proof Vaults.
Safety Deposit Boxes.

BURGLAR-PROOF GHANNEL STEEL
BANK SAFES A SPECIALTY,
SOLID DOORS, AIR-TIGHT JOINTS.

FIRE-PROOF WORK. . . .
Our Six-Flange Tongue and Groove
Safes are proof against Fire, Water
and Steam.

Send for estimates, and do not fail to
buy the best.

309 Dearborn Street,
CHICAGO, ILL.

THE ONLY MANUFACTURERS OF RAWHIDE BELTING IN THE COUNTRY.

THE CHICAGO RAWHIDE MFG. CO.

MANUFACTURERS OF

Rawhide Belting

LACE LEATHER, ROPE, LARIATS, FLY NETS, PICKET LEATHER, STOCK AND
FARM WHIPS, WASHERS, HAME STRAPS, HAME STRINGS, HALTERS
AND OTHER RAWHIDE GOODS OF ALL KINDS.
BY KRUEGER'S PATENT.

THE MABBS HYDRAULIC RAWHIDE PACKING.

75 AND 77 OHIO STREET, NEAR MARKET STREET, - - CHICAGO.
TELEPHONE NORTH 403.

NEW YORK OFFICE,
33 CHAMBERS ST.

LONDON, ENGLAND,
159 QUEEN VICTORIA ST.

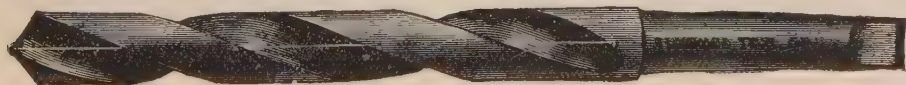
PARIS, FRANCE,
68 RUE DE MARAIS.

THE STANDARD TOOL CO.,

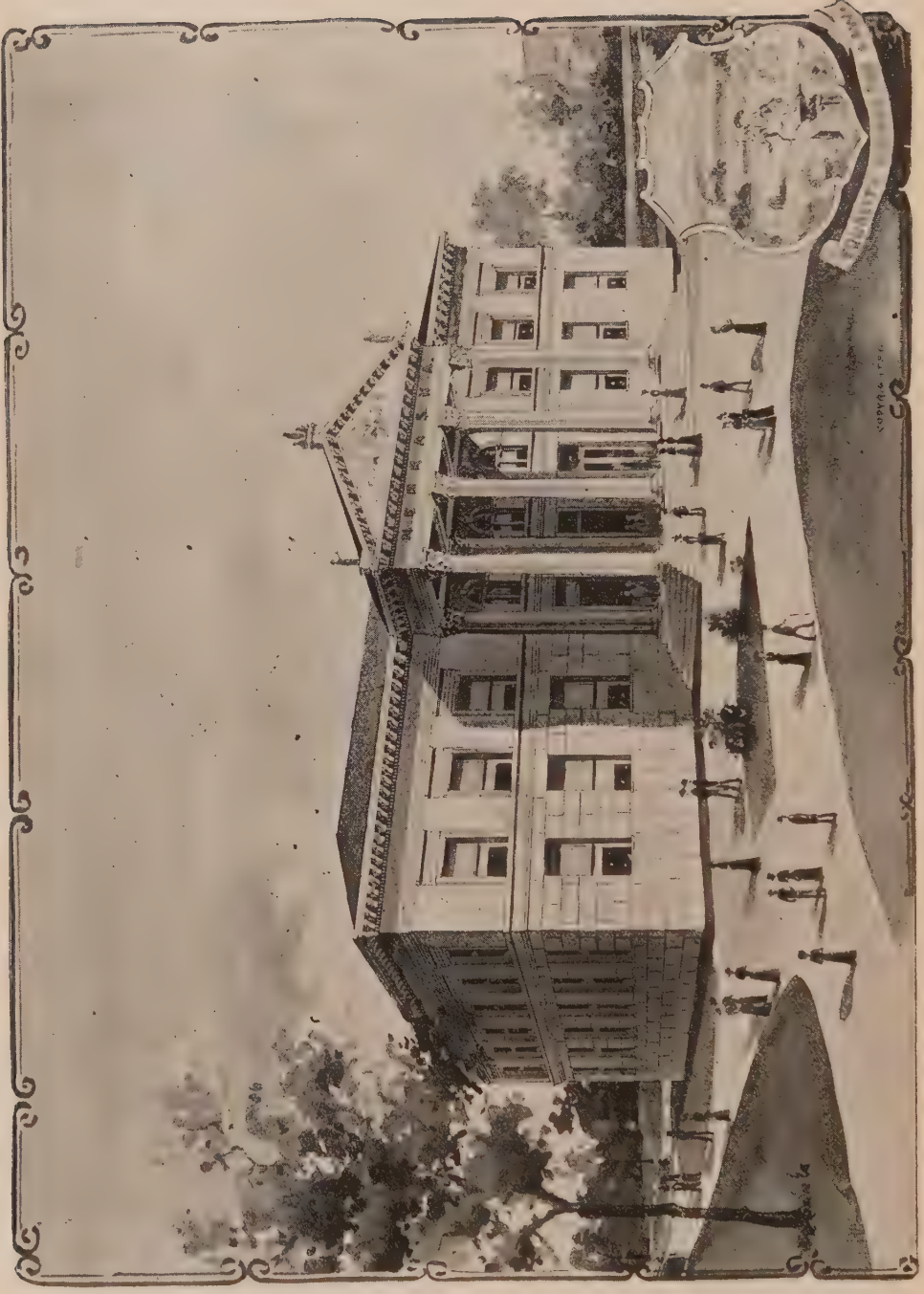
CLEVELAND, OHIO,

MANUFACTURERS OF

STRAIGHT LIP INCREASE TWIST DRILLS AND SPECIAL TOOLS.



REAMERS, SOCKETS, CHUCKS, TAPS, MILLING CUTTERS
AND
STANDARD PATENT TWIST DRILL GRINDING MACHINE.



NEBRASKA STATE BUILDING.

Electric Heat Alarm Co.

HOME OFFICE,

113 DEVONSHIRE STREET,

BOSTON, MASS., U. S. A.

Owners and Patentees of **AUTOMATIC FIRE ALARM SYSTEM** for Mills, Factories, Warehouses, Hotels and all Public Buildings; Steamboats and Vessels carrying cargoes liable to spontaneous combustion. Accepted by the New England Insurance Exchange, for which they allow a reduction in rates when installed according to instructions. For use in cellars, over furnaces, hot air boxes, etc.

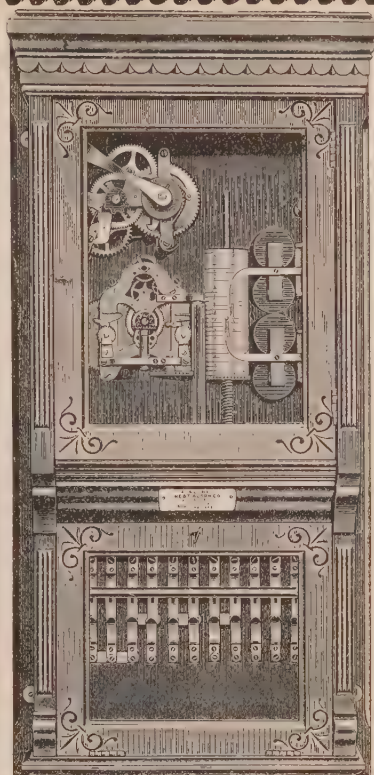
JOURNAL BEARING ALARM SYSTEM

For electric communication between an office and the engine room with all machinery bearings.

Gold medal awarded by the Massachusetts Charitable Association Fair, 1892, (Professor Dolbear, Judge of Electrical Exhibits).

INDORSED BY LEADING ENGINEERS.

Simple, Practical and Easily Applied.



W. LEWIS AND SONS

13, CHEAPSIDE, LONDON, E. C.

And WORLD'S FAIR, CHICAGO, 1893.

UNDERWEAR.

SHIRTS,

NECKWEAR,

GLOVES.

BEST GOODS ONLY.

PHYSICIANS



AND PHARMACISTS

Are cordially invited to visit the exhibits of BURROUGHS, WELLCOME & CO., in the British Section of the Arts and Manufactures Building and in the Agricultural Section, respectively, to register their names and addresses, make appointments with friends, and to write letters, etc. Burroughs, Wellcome & Co.'s representatives will afford every facility in their power.

BURROUGHS, WELLCOME & CO.

Snow Hill Buildings, London, E. C.
347 Fifth Avenue, New York.
456 Collins St. West, Melbourne.

❖ PLANKINTON ❖ HOUSE ❖



LEADING HOTEL OF THE NORTHWEST.

450 LARGE, WELL
FURNISHED ROOMS
MANY COMMUNICAT-
ING AND WELL SUIT-
ED FOR FAMILIES...



LOCATION NEAR DE-
POTS AND STEAMBOAT
DOCKS. TELEGRAPH.
LONG DISTANCE TEL-
EPHONE, AND STE-
NOGRAPHER IN HOUSE

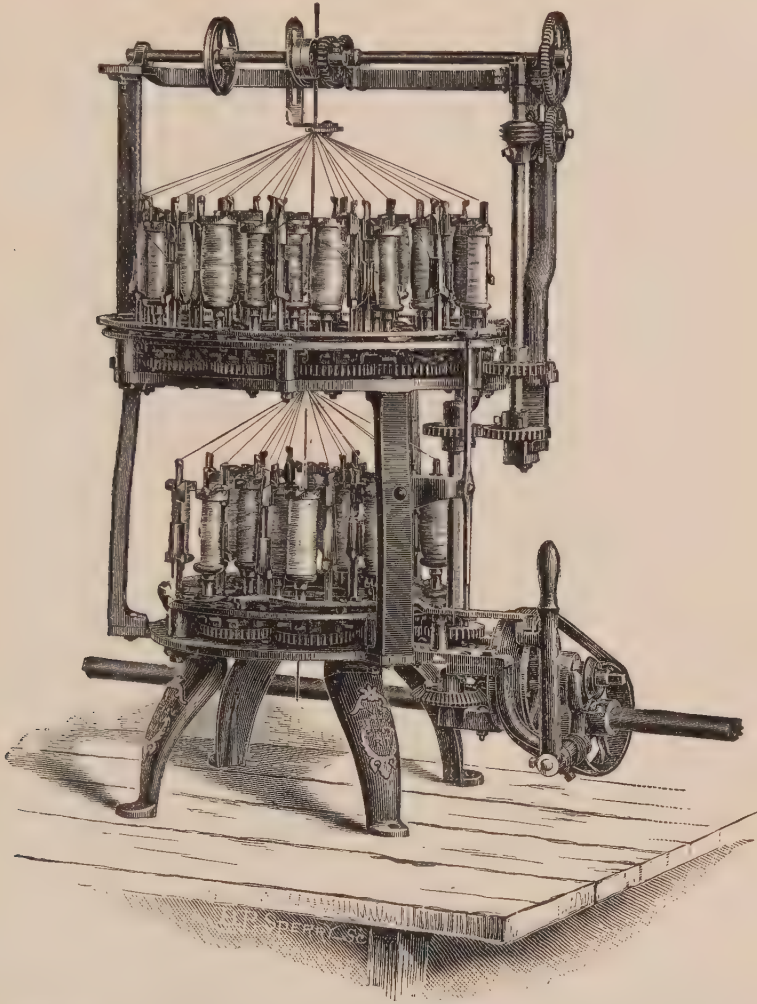
MILWAUKEE, WISCONSIN

A. L. CHASE, MANAGER.

NEW ENGLAND BUTT CO.

H. N. FENNER, Treasurer.

PROVIDENCE, R. I., U. S. A.



IMPROVED DOUBLE BRAIDER, 16 AND 24 STRAND, PATENTED.

. . . MANUFACTURERS OF . . .

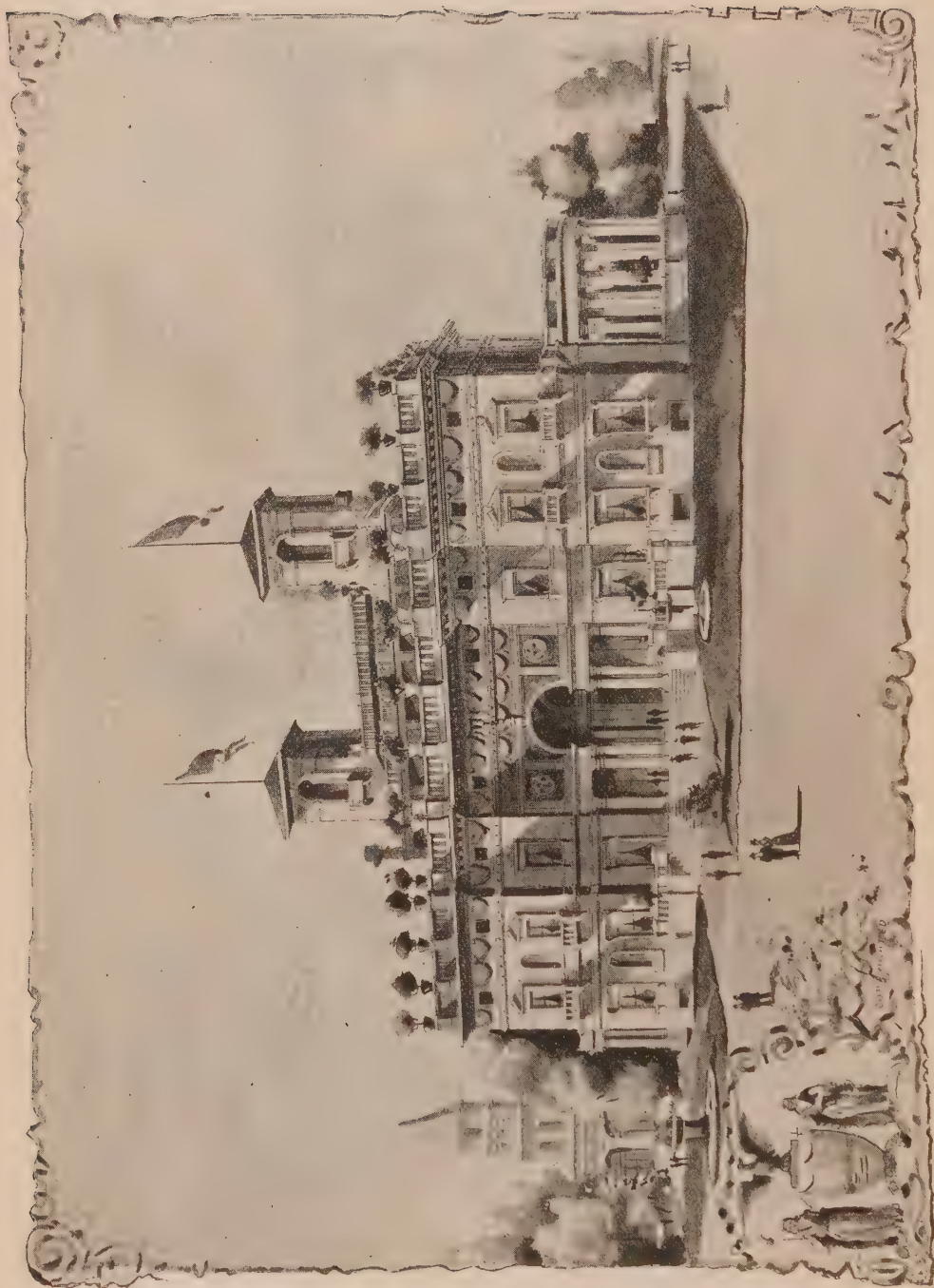
Machinery for Covering Electrical Wires

BRAIDING,
CABLING,
TAPING,
WINDING,

PAIRING,
POLISHING,
STRANDING,
MEASURING,

And other Special Machinery for Electrical Industries

FINE CASTINGS A SPECIALTY



NEW YORK STATE BUILDING.

The Safety Insulated Wire and Cable Co.

KNAPP ELECTRICAL WORKS,

54 FRANKLIN STREET,

CHICAGO, ILL.

SOLE WESTERN AGENTS.

LEONARD F. REQUA,

GENERAL MANAGER

OFFICE: 234 WEST 29TH STREET,

NEW YORK CITY.

MANUFACTURERS OF

SAFETY UNDERGROUND CABLES,

REQUA WHITE CORE INSULATION,

SAFETY SOLID RUBBER INSULATION,

SAFETY NAVAL MARINE INSULATION,

... ALL MADE WITH A VIEW TO ...

Perfect Safety for Electric Lighting.

Seamless Solid Rubber Insulated Wires and Cables

FOR ELECTRIC POWER, TELEPHONE AND TELEGRAPH PURPOSES.

WE FURNISHED THE WORLD'S COLUMBIAN EXPOSITION:

The Conductors for Arc Light Circuits, underground, 100 miles.

The Conductors for Arc Light Circuits, overhead, about 200 miles.

The Conductors for Telephone Circuits, about 300 miles.

The Conductors for Fire Alarm Circuits, about 40 miles.

The Conductors for Police Telephone Circuits, about 40 miles.

OVER FOUR HUNDRED MILES

Of Safety Underground Cables now in use in the New York Subways, and
used by every Electric Light Co. using Currents of
High Electro-Motive Force.

ARCHITECTS AND CONTRACTORS PLEASE NOTE AND SEND FOR SAMPLES.

The Owen Electric Belt and Appliances



Cure Acute, Chronic and Nervous Diseases

LARGE, ILLUSTRATED CATALOGUES

In English, Swedish, German or Norwegian Languages, containing full information, can be had free at our offices.

BY MAIL, TO ANY ADDRESS, SIX CENTS.

CALL AT THE OFFICE.

ENTRANCE:

207-209 STATE ST.

Consultation Free.

OFFICE HOURS:

From 8 A.M. to 8 P.M.

SUNDAYS:

From 10 A.M. to 12 M.

Telephone 2766.



ALL LANGUAGES
SPOKEN AT OUR
OFFICE.

ENTRANCE:

207-209 STATE ST.

NO TROUBLE TO
SHOW GOODS.

HOME OFFICES, HEAD SALESROOMS AND ONLY FACTORY,

THE OWEN ELECTRIC BELT AND APPLIANCE CO.

THE OWEN ELECTRIC BELT BUILDING,
201 to 211 STATE STREET, Cor. ADAMS,

CHICAGO, ILL.

The Largest Electric Belt Establishment in the World.
Visit our Offices and Factory and compare with others in same line.

See Dr. A. Owen's Exhibit, Section U, Space 1, Electricity Building.

THE STANDARD

For Over a Quarter of a Century.

HIGH GRADE SEAMLESS INSULATION.

WIRES.

Telegraph,

Telephone,

Electric Light

and

R. R. Signal Wires.



Kerite Tape,

Elastic Tape,

Rubber Tape

Made to any width.



TRADE MARK.

CABLES.

Submarine,

Underground,

Aerial,

for

Electric Light, Telegraph

and

Telephone Uses.

Wires and Cables made to any specification. Correspondence solicited.

W. R. BRIXEY, Sole
Manufacturer.

Cable address, Dayhewit, N. Y.

J. E. HAM, Gen'l Agent,

203 Broadway, New York City, U. S. A.



Patented March 10, 1891.

THE ONLY BURLINGTON "STAY ON" BLANKET.

*No Surcingle is required. No Tight Girthing;
consequently no Sore Backs.
No RUBBING of TAIL or CHAFING of MANE.
No Horse can wear them under his Feet.
There is no come off to them, and your horse is
always clean.*

MANUFACTURED ONLY BY

**THE BURLINGTON BLANKET COMPANY,
BURLINGTON, WIS.**

CAUTION! Do not be deceived by numerous inferior imitations
that will be offered you, but be sure that every
blanket is stamped **BURLINGTON**, and take no other.

SEND FOR CATALOGUE AND PARTICULARS.

\$2.50 Enclosed to the publishers in the
form of a registered letter, Post
Office or Express money order, will ensure a copy
of the Official Directory being sent by return mail
or Express. Charges prepaid.

W. B. CONKEY COMPANY,

Official Publishers to the World's Columbian Exposition,

CHICAGO, ILL.



Mines and Mining Building

Copyrighted, 1892, by ZEISS & Co., Chicago

DEPARTMENT E--MINES, MINING AND METALLURGY.

THE building over the portal of which is written "Mining" attracts marked attention. It is the first Exposition building that has been distinctively devoted to this industry. Its walls contain the first separate and comprehensive mineral and metallurgical exhibit. It is one of the new developments and marvels of an Exposition that furnishes so many surprises and wonders. The position of this building is amidst the most beautiful of natural and architectural surroundings. It faces at the north the western and middle inland lakes and the flowers and lawns of the wooded island. It reflects on the west the gilded light of the Golden Door and the singularly handsome and unique high-color finish of the Moorish transportation ex-

on the east by the of Electricity. At the lofty and Administration. seized the inspiration the occasion and a ment. Upon a long by 350 feet over five and a constructed a massive structure, relieved with all the symmetric forms and rich known to his profession consisting of a floor and a deeply ade on the gallery main fronts of the intersected at the enormous arched high and 25 feet corners ends in surmounted by loggia ceilings are and emblematical



F. J. V. SKIFF, CHIEF.

massed at the prominent points of the furnace. Its architecture, of early Italian renaissance, with a slight touch of French spirit, together with the enormous and floating banners, invests the building with the animation that should characterize a great general Exposition. The interior design is of no less interest than the exterior. The roof rests upon ten great cantilever trusses so that the floor is practically unencumbered, there being only two rows of iron columns on either side. This is the first instance of the application of the cantilever system to building and the result is a structure signally adapted to exhibition purposes, the gain in space being quite large. The gallery 60 feet wide and 25 feet above the main floor extends entirely around the building and is well lighted by clearstory windows above. The repeated series of large arched windows along the walls and the extensive glass roof covering furnish abundance of light. The cost of the building was \$250,000. It was commenced in July, 1891, and was the first building to be finished. In its construction were employed 592,000 pounds of iron, 282 carloads of lumber and three carloads of nails, while the glass in the skylight covers one and a half acres. The exhibits seen within the walls of this great building are as varied as they are attractive and interesting. Here are

Palace for the hibits. It is flanked turreted pavilions the south looms graceful dome of The architect has tion of the theme, favored environ- great floor 700 feet wide and covering half acres, he has sive and solid and embellished metrical and clas- ornamentations fession. An arcade loggia on the main recessed promen- floor occupy the building. It is in- center by an entrance 56 feet broad and at the square pavilions low domes. The heavily coffered decorations are

presented all the precious minerals and gems, all the economic mineral and materials, all the metals as crude, as well as in the manufactured state, and all the machinery, implements and appliances—in fact everything pertaining to the arts and sciences directly or indirectly involved in the mining and metallurgical industries. Of the official classification, twenty-seven groups and one hundred and twenty-seven classes (or eighty-eight more than at the Centennial) are required to cover the exhibits that are shown on the floor of this building. The exhibit space has been laid off in regular sections so that the visitor can readily understand and follow out the installation. The wide central avenue running the length of the building, and named “Bullion Boulevard,” divides the foreign exhibits on the west from the domestic exhibits to the east. The boulevard is one of the most attractive and entertaining promenades on the grounds and furnishes a scene of striking beauty. The States and foreign countries have here invested a large portion of their wealth of rare and representative mineral products and built enclosing pavilions and pagodas of symmetrical design and graceful proportions. The leading powers of Europe are on the west side of this aisle—France, Germany, Great Britain and her colonies. Mexico and Brazil have large areas at the south end, as well as Cape Colony, whose exhibit of diamond washing, sorting and polishing is here a center of attraction as it was at the last Paris Exposition. Beyond these countries, Austria, Spain, Italy, Japan, Russia, and the South and Central American countries, have spread out their mineral treasures. Upon the east side of this boulevard front artistic façades of classic columns, capitals and pediments, arched entrances and colonnades forming the structures erected by the States of this country. The north section is occupied with abundant exhibits of coal, iron, clays, building and ornamental stones, mined in the vast mineral belts of the Alleghanies and the Central Basin. In the south section predominate quartzose ores, the gold, silver and precious minerals, produced by the treasure States of the West. Many features of unusual interest are found within the courts of these States, such for instance as the geological obelisk illustrating the geology of New York, the silver statue revealing the wonderful richness of Montana, the quarter of a million dollar collection of gold nuggets from Colorado, the precious gems of North Carolina. All these, as well as other mineral products to be found within these structures, enable the visitor to gain a comprehensive conception of the boundless mineral resources of the United States. Including some three or four displays in the gallery, thirty-two States in all are in this way represented on the floor of the Mining Building. Beneath the gallery are in operation machines of every description used in and out of mines—all of the methods and appliances for sinking shafting and driving levels; pumps and engines for driving and hoisting; trams and cars for loading and unloading; huge crushers for pulverizing rock of adamant; ingenious apparatus for quarrying stone and for turning and polishing into marketable shapes; roasting and chloridizing furnaces; apparatus for refining precious metals, etc. A complete working plant in miniature, illustrating the methods of placer and hydraulic mining is also shown. The outside exhibit of well drilling machinery connected with this department is located south of Machinery Hall. Here are all rarities of apparatus employed in drilling for water, gas and oil. The tram-way connecting the outside ore-yard with the building carries material for demonstrating purposes to the mouth of the tunnel which runs across the south end of the building. Mine cars are run through the tunnel to carry the raw material at such times and to such places as it may be required. This tunnel is open to the inspection of visitors. The gallery is occupied with displays of a lighter and more technical character. At the north end one of the leading oil companies of the United States has an exhibit presenting the entire story of oil production, manufacture and distribution. Near by have been arranged a series of courts in which are grouped, according to affinity, all of the industrial and economic mineral material, such as graphites, clays, asbestos, limestones, cement, salts, sulphurs, pigments, mineral waters,

abrasives, etc. A national display of building stones in cubes of uniform size is situated at the center of the west gallery and in connection herewith are seen very interesting enlarged microscopic slides of rock sections, etc. Next to this is a departmental coal display, consisting of samples of coal from all of the principal coal mines of the country, in uniform size, upon aluminum mounts, and arranged around a large plate glass map, showing the geographic and topographic position of the contributing mines. An extensive coke plant is near by reproduced in miniature. An operating assay laboratory is open to the inspection of visitors in the room at the southeast corner, and a library and reading room of books and periodicals on mining and metallurgy is accessible to all in the room at the southwest corner. Here also the associated societies of Mining and Civil Engineers are located. Models of famous mines or special mine workings, are exhibited in the northeast corner. Almost the entire west gallery is occupied by departmental collections in metallurgy and mineralogy. These collections are displayed in cases and cabinets of uniform size and illustrate valuable and scientific mineral series, while a sequential exhibit of metal reduction samples exemplifies the processes employed in the metallurgic arts. A long row of ground glass transparencies hang before the windows and show pictorially the primitive appliances and methods used by the ancients both in mining and metallurgy. The offices of the chief and his assistants are located in the upper northwest corner of the building.

CHAS. A. SCHIEREN & CO.

Manufacturers and Tanners of

OAK-TANNED

LEATHER BELTING AND LACE LEATHER



Chas. A. Schieren

Inventors and Manufacturers of the Celebrated



**ELECTRIC and
PERFORATED**

LEATHER BELTING

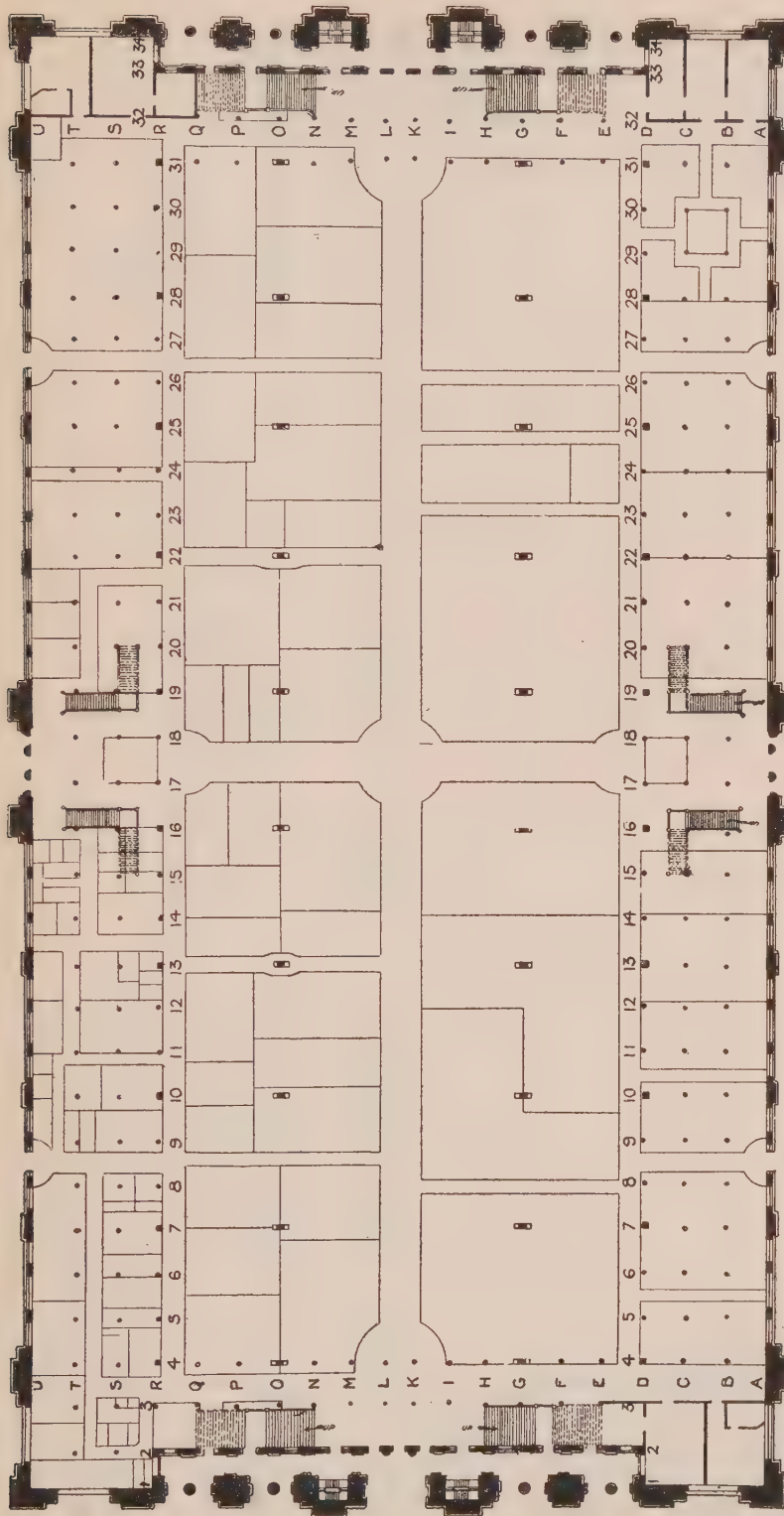
Exhibited in Dept. F, Group 69, Class 416, Section 15, Column 27, Machinery Hall, the largest Electric Belt ever made, being 96 inches wide, 200 feet long, three ply in thickness, weighing over 5,000 lbs.; also a variety of other belts and have in actual service 64, all of the electric quality and mostly perforated, supplying light and power in the various buildings of the World's Fair Grounds. These Electric Belts are universally acknowledged to be the most reliable for Electrical Machinery and Dynamos.

FACTORIES AND TANNERIES:

BROOKLYN, NEW YORK,
ADAMSBURG,
MOUNT UNION, CUMBERLAND.

OFFICES AND SALESROOMS:

NEW YORK, 47 Ferry Street.
CHICAGO, 46 S. Canal Street.
PHILADELPHIA, 226 N. 3d Street.
BOSTON, 119 High Street.



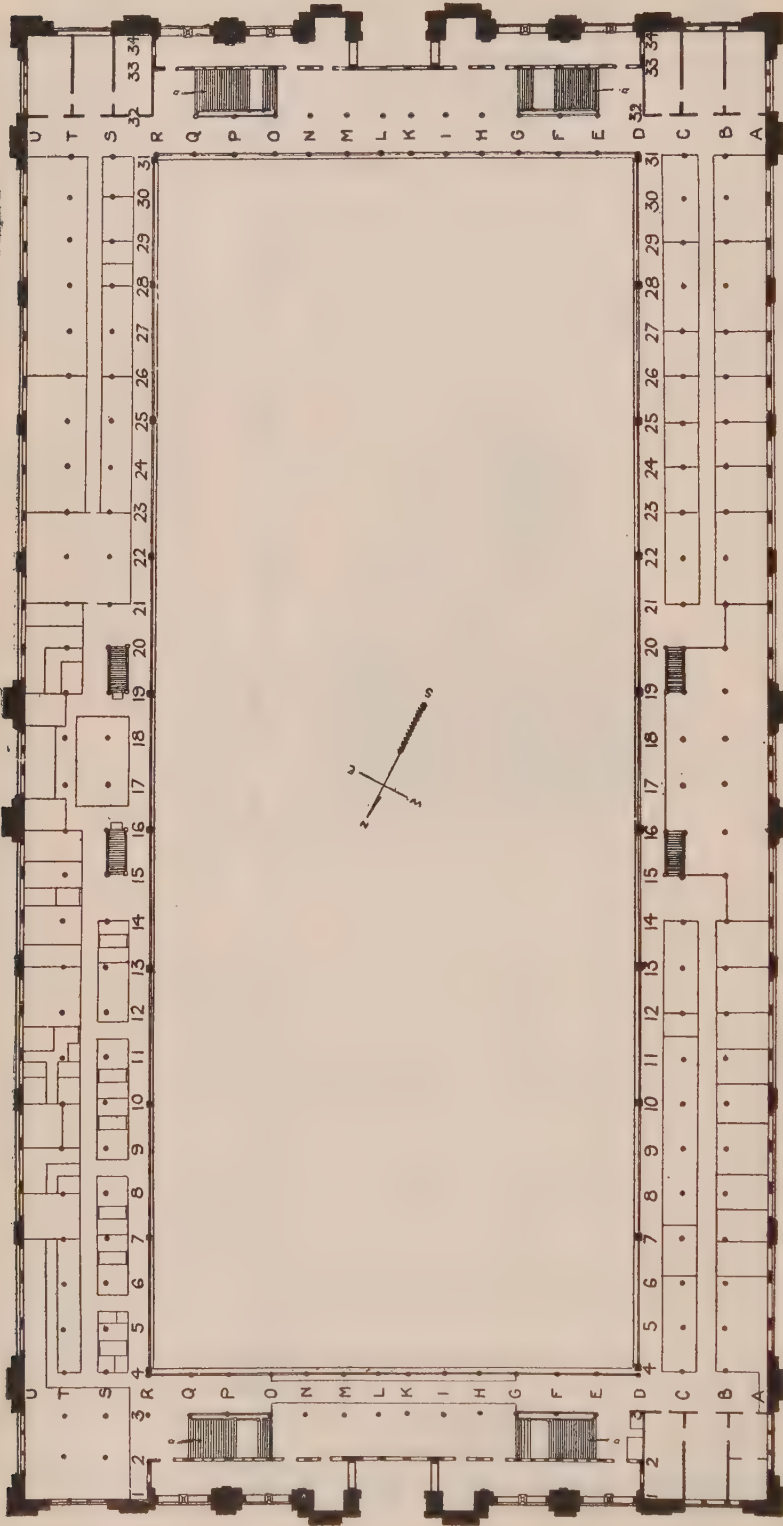
—OFFICIAL ALLOTMENT OF SPACE— —MINES AND MINING BLDG. —
—TO — —GROUND FLOOR PLAN — —WORLD'S COLUMBIAN EXPOSITION —
KEY TO INSTALLATION.

COPYRIGHTED 1893,
BY THE

WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF

W. B. CONKEY COMPANY,
CHICAGO.

For the purpose of indicating the location of exhibits in the Mines Building the columns extending north and south are numbered from 1 to 34, and those extending east and west are lettered from A to U. By this system each exhibit on the main floor or the gallery has a position of longitude and latitude. For example, the exhibit of Great Britain is located on the main floor at "G-16," or at that point where a line drawn from Column G would intersect with a line drawn from Column 16. The columns are plainly lettered and numbered. The location of each exhibit is indicated by a letter and a number, and exhibits in the gallery are indicated by the letter "g" following the letter and numbers.



— OFFICIAL ALLOTMENT OF SPACE — MINES AND MINING BLDG. —
— GALLERY FLOOR PLAN — — WORLD'S COLUMBIAN EXPOSITION —

COPYRIGHTED 1893,
BY THE
WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO.

CLASSIFICATION.

MINES AND MINING DEPARTMENT (E).

MINES, MINING AND METALLURGY.

GROUP 42.

MINERALS, ORES, NATIVE METALS, GEMS AND CRYSTALS. GEOLOGICAL SPECIMENS.

- Class 290. Collections of minerals systematically arranged.
- Class 291. Collections of ores and the associated minerals. Diamonds and gems, rough uncut and unmounted. Crystallography. Specimens illustrating the formations of the earth, systematically arranged.

GROUP 43.

MINERAL COMBUSTIBLES—COAL, COKE, PETROLEUM, NATURAL GAS, ETC.

- Class 292. Coal—anthracite, semi-bituminous and bituminous; coal waste, "slack," coke and pressed coal.
- Class 293. Asphaltite and asphaltic compounds—Uintaite, wortzilite, grahamite, albertite, bitumen, mineral tar, amber.
- Class 294. Petroleum—Illuminating and lubricating oil.
- Class 295. Natural gas—Methods of conveying and using.

GROUP 44.

BUILDING STONES, MARBLES, ORNAMENTAL STONES AND QUARRY PRODUCTS.

- Class 296. Building stones, granites, slates, etc., rough-hewn, sawed or polished—For buildings, bridges, walls or other constructions, or for interior decoration, or for furniture. Marble, white, black or colored. Stalagmitic marbles, onyx, freiated marbles, silicified wood, agates, jaspers, porphyries, etc., used in building, decoration, statuary, monuments, vases or furniture.

GROUP 45.

GRINDING, ABRADING AND POLISHING SUBSTANCES.

- Class 297. Grindstones, hones, whetstones, grinding and polishing materials, sand, quartz, garnet, crude topaz, diamond, corundum, emery in the rock and pulverized, and in assorted sizes and grades.

GROUP 46.

GRAPHITE AND ITS PRODUCTS; CLAYS AND OTHER FICTILE MATERIALS AND THEIR DIRECT PRODUCTS; ASBESTOS, ETC.

- Class 298. Crude graphite, in blocks and in powder.
- Class 299. Graphite and compounds for coating iron.
- Class 300. Graphite lubricants.
- Class 301. Electrotypers' graphite.
- Class 302. For pencils, crayons, etc.
- Class 303. Graphite crucibles and melting-pots.
- Class 304. Clays, kaolin, silex and other materials for the manufacture of porcelain faience, and of glass, bricks, terra cotta, tiles and fire brick; various examples.
- Class 305. Refractory stones for lining furnaces, sandstone, steatite, etc., and refractory furnace materials. Mica; kidney, sheet or ground.
- Class 306. Bauxite clay for the manufacture of aluminum.
- Class 307. Asbestos, crude and manufactured.
- Class 308. Meerschäum.

GROUP 47.

LIMESTONE, CEMENTS, AND ARTIFICIAL STONE.

- Class 309. Lime, cement and hydraulic cement, raw and burned, accompanied by specimens of the crude rock or material used; also artificial stone, concrete, beton. Specimens of lime mortar and mixtures, with illustrations of the processes of mixing, etc. Hydraulic and other cements.
- Class 310. Beton mixtures and results, with illustrations of the processes.
- Class 311. Artificial stone for building purposes, building blocks, cornices, etc. Artificial stone mixtures for pavements, walls, or ceilings.
- Class 312. Asphaltic mastics and mixtures, asphaltic sand, asphaltic limestone.
- Class 313. Gypsum, crude and boiled, calcareous; plasters, mastics, etc.

GROUP 48.

SALTS, SULPHUR, FERTILIZERS, PIGMENTS, MINERAL WATERS, AND MISCELLANEOUS USEFUL MINERALS AND COMPOUNDS.

- Class 314. Salt from beds or from brines.
- Class 315. Nitre and other nitrates.
- Class 316. Sulphates, alums, and other salts.
- Class 317. Sulphur and pyrites for the manufacture of sulphuric acid.
- Class 318. Boracic acid and other salts; borax.
- Class 319. Pigments, iron oxides, ochres, vermilion, etc.
- Class 320. Mineral fertilizing substances, gypsum, phosphate of lime, marls, shells, coprolites, etc., not manufactured. (For commercial fertilizers and compounds, see Group 17.)
- Class 321. Mineral waters, artesian well water (for commercial forms, as bottled and as beverages, see Group 10); natural brines, saline and alkaline efflorescences and solutions.

GROUP 49.

METALLURGY OF IRON AND STEEL, WITH THE PRODUCTS.

- Class 322. Ore mixtures, fluxes, and fuels.
- Class 323. Blast furnaces—stacks, stoves, blowing apparatus and arrangement.
- Class 324. Pig-iron, cast-iron, and mixtures.
- Class 325. Cupola furnaces.
- Class 326. Direct processes—Sponge and blooming plant and apparatus.
- Class 327. Puddling—Furnaces and appliances.
- Class 328. Bessemer machinery—Details and arrangements.
- Class 329. Basic process and apparatus.
- Class 330. Open-hearth steel—Plants and apparatus.
- Class 331. Crucible steel—Plant and apparatus.
- Class 332. Nickel steel.
- Class 333. Manganese iron and steel, chrome steel, aluminum steel, tungsten steel, other forms of steel.
- Class 334. Iron and steel. Bars, rods, sheets, wire.

GROUP 50.

ALUMINUM AND ITS ALLOYS.

- Class 335. Aluminum, pure and commercial; ingots, castings, bars, rods, wire, sheets, and partly manufactured.
- Class 336. Aluminum alloys.
- Class 337. Aluminum alloy wire and wire cloth.
- Class 338. Process for the extraction of aluminum; electric reduction and results.

GROUP 51.

COPPER AND ITS ALLOYS. METALLURGY.

- Class 339. Native copper, and the methods of extracting, melting and refining it.
- Class 340. Copper ores and their treatment by fire. Copper smelting. Pneumatic process. Converter system.
- Class 341. Copper extraction in the "wet" way.
- Class 342. Copper in ingots, bars, and rolled, with specimens illustrating its various stages of production. Copper and zinc. Brass industry, and products regarded as materials of manufacture.
- Class 343. Copper and aluminum, aluminum bronze.

GROUP 52.

METALLURGY OF TIN, TIN-PLATE, ETC.

- Class 344. Tin ores and their treatment.
- Class 345. Block tin, and its extraction from tin ore.
- Class 346. Tin-plate, and methods of cleaning and coating iron and steel plates.

GROUP 53.

METALLURGY OF ZINC, NICKEL AND COBALT.

- Class 347. Production of spelter.
- Class 348. Sheet and bar zinc.
- Class 349. Production of zinc oxide.
- Class 350. Nickel in ingots, bars, rods, sheets and wire.

- Class 351. Nickel-covered steel and iron by rolling.
- Class 352. Nickel "plating."
- Class 353. Nickel salts.
- Class 354. Special nickel alloys, as German silver, etc.
- Class 355. Nickel steel. (See Class 332.)

GROUP 54.**METALLURGY OF ANTIMONY AND OTHER METALS NOT SPECIFICALLY CLASSED.**

- Class 356. Crude and star antimony.
- Class 357. Antimony compounds and principal alloys.
- Class 358. Arsenic, white arsenic, orpiment and realgar.
- Class 359. Bismuth and alloys. Quicksilver and amalgams.

GROUP 55.**EXTRACTION OF GOLD AND SILVER BY MILLING.**

- Class 360. Gold mills and accessories.
- Class 361. Silver mills and accessories.
- Class 362. Apparatus and accessories of amalgamation; handling quicksilver.
- Class 363. Retorting, melting, stamping, shipping bullion.

GROUP 56.**EXTRACTION OF GOLD AND SILVER BY LIXIVIATION.**

- Class 364. Roasting and chloridizing furnaces.
- Class 365. Chlorination process and adjuncts.
- Class 366. Other processes.

GROUP 57.**EXTRACTION OF GOLD, SILVER, AND LEAD BY FIRE.**

- Class 367. Furnace plant and appliances.
- Class 368. Lead bullion molds and bars.
- Class 369. Refining operations.

GROUP 58.**QUARRYING AND WORKING STONE.**

- Class 370. Quarrying, channeling, and cutting engines.
- Class 371. Derricks and fittings.
- Class 372. Slate-cutting, sawing and planing machines.
- Class 373. Machines and apparatus for cutting, turning, and polishing marble, granite and other stone. (See Group 78.)

GROUP 59.**PLACER, HYDRAULIC, AND "DRIFT" MINING.**

- Class 374. Apparatus and machines for washing gravel; sluices, cradles, toms, rockers, rifles, etc.
- Class 375. Construction of ditches, flumes, pen stocks, etc.
- Class 376. Pipes for conveying water.
- Class 377. "Giants," nozzles, and appurtenances.

GROUP 60.**TOOLS AND APPLIANCES OF UNDERGROUND MINING, TIMBERING AND SUPPORTING.**

- Class 378. Timber cutting and framing machines.
- Class 379. Methods of timbering shown by examples.
- Class 380. Underground chutes, gates, and appliances for delivering ores. Methods and appliances for ventilating, lighting and signaling.

GROUP 61.**BORING AND DRILLING TOOLS AND MACHINERY, AND APPARATUS FOR BREAKING OUT ORE AND COAL.**

- Class 381. Picks, gads, and hammers.
- Class 382. Hand-drills, hammers, and blasting implements.

- Class 383. Drilling by steam or compressed air,—“power drills.”
- Class 384. Diamond drills for prospecting or for sinking and driving.
- Class 385. Well and shaft boring (various systems).
- Class 386. Boring for water, oil or gas—tools and methods.
- Class 387. Machines, apparatus and implements for cutting coal.

GROUP 62.

PUMPS, ENGINES AND APPARATUS USED IN MINING FOR PUMPING, DRAINING AND HOISTING.

GROUP 63.

MOVING, STORING AND DELIVERING ORES, COALS, ETC.

- Class 388. Tramways, turn-tables, automatic hoisting and conveying on the surface, contrivances for loading and unloading ores and coal.
- Class 389. Cars of all kinds.
- Class 390. Automatic dumping.
- Class 391. Ore bins and appliances.

GROUP 64.

APPARATUS FOR CRUSHING AND PULVERIZING.

- Class 392. Rock breakers.
- Class 393. Rolls.
- Class 394. Large stamps.
- Class 395. Stamps and mortars.
- Class 396. Revolving grinding mills.
- Class 397. Coal breakers.

GROUP 65.

SIZING APPLIANCES.

- Class 398. Grizzlies and bar screens and sieves.
- Class 399. Perforated plates.
- Class 400. Wire-mesh sieves and trammels.
- Class 401. Sizing by currents of water or air. Overflows.
- Class 402. Sizing by belts.

GROUP 66.

ASSAYING APPARATUS AND FIXTURES.

- Class 403. Plans of assay offices.
- Class 404. Furnaces, muffles and appliances.
- Class 405. Scorification and cupelling.
- Class 406. Volumetric methods and apparatus.
- Class 407. Fluxes and their receptacles.
- Class 408. Assay balances, etc. (See Group 112.)
- Class 409. Assay tables, assay schemes and methods.

GROUP 67.

HISTORY AND LITERATURE OF MINING AND METALLURGY.

- Class 410. Maps, relief-models and pictures to illustrate the geology and distribution of minerals and mines and the methods of working mines.
- Class 411. History and statistics of mines and mining districts.
Charts, diagrams and tabular representations. Statistics of mineral production.
- Class 412. Mine engineering—surface and underground surveying and plotting, projection of underground work, location of shafts, tunnels, etc.; surveys for aqueducts and for drainage.
Boring and drilling rocks, shafts and tunnels, etc.; surveys for aqueducts and for ascertaining the nature and extent of mineral deposits.
Construction—sinking and lining shafts by various methods, driving and timbering tunnels, and the general operations of opening, stoping and breaking down ore; timbering, lagging and masonry.
Hoisting and delivering at the surface, rock, ore or miners; pumping and draining by engines, buckets or by adits.
Ventilating and lighting.

GROUP 68.

ORIGINALS OR REPRODUCTIONS OF EARLY AND NOTABLE IMPLEMENTS AND APPARATUS USED IN MINING AND METALLURGY.

Department E.--Mines, Mining and Metallurgy.

UNITED STATES.

GROUP 42.

Minerals, Ores, Native Metals, Gems and Crystals. Geological Specimens.

1. Beers, Samuel, Chicago. Magnesite. B-28-g 291
2. Colorado, State of. Mineral specimens. B-9-g 290
3. Crim, A. B., Middleville, N. Y. Carbon and liquid inclusions, crystals, etc. C-12-g 291
4. Egleston, Prof., New York. Minerals and material used in mines. C-25-g 291
5. English, George L., & Co., New York.
 - a Mineral specimens. H-22-g 290
 - b Gems and precious stones. 291
6. Foote, A. E., Philadelphia. Minerals. 291
7. Galitzki, L., Chicago. Gold and silver ores. C-11-g 291
9. Grandelmyer Joseph, Hamilton, Nev. Collection of minerals. N. W. Gal. 290
10. Hatch, John, San Francisco. California minerals. 291
11. Kunz, Geo. F., New York. Mineral collections. B-7 290
12. New York, State of. Mineral specimens. B-9-g 290
13. Orton, Prof., Columbus, O. Minerals and fossils from Ohio University. B-8-g 290
14. Ulke, Titus, Anaconda, Mont. Tin bearing ores from the Black Hills. B-24-g 291
15. United States Car Company, Anniston, Ala. Iron ore. 291
16. Ward's Natural Science Establishment.
 - a Collection of minerals T-28-g
 - b Cabinet of meteorites.
 - c Rocks and petrology.
 - d Cabinet of marbles. B-5-g
17. Washington Pyrite Co., Washington, D. C. Iron pyrites. S-5-g 291

GROUP 43.

Mineral Combustibles—Coal, Coke, Petroleum, Natural Gas, etc.

18. Consolidation Coal Co., Baltimore. Column of coal. S-3 292
19. Frick, H. C., Coke Company, Scottsdale, Pa. Coke and coking coal. S-24-g 292
20. Gresley, W. S., Erie, Pa. Diagram of a coal bed. T-23-g 292
21. Harris, A. W., Oil Company, Providence. Petroleum lubricants. T-19-g 294
22. North Western Land & Coal Co., Boston. Compound to promote combustion of coal. S-2 292

23. Standard Oil Company, Cleveland, O. Petroleum products and interests connected therewith. K-3-g 294
24. Union Mining Co., Mount Savage, Md. U-12-g
 - a Bituminous coal, carbon for electric lights and similar purposes. 292
 - b Asphaltum and forms of pitch. 293

GROUP 44.

Building Stones, Marbles, Ornamental Stones and Quarry Products.

25. Auld & Conger, Cleveland, O. Roof. T-19-g 296
26. Campbell, H. B., Clear Creek, Ind. Building stone. S-17-g 296
27. Fort Madison & Appanoose Stone Co. Fort Madison, Ia. Building stone. S-17-g 296
28. New England Brownstone Co., Cromwell, Conn. Brown freestone. S-17-g 296
29. New Pedrara Onyx Company, New York. Onyx blocks, slabs and columns. T-17-g 296
30. Pritchard, Robert B., Middle Granville, N. Y. Red slate. T-19-g 296
31. Schaeffler, John B., Chicago. Building material. C-10-g 296
32. Shaler & Hall Quarry Co., Portland, Conn. Building stone cube. S-17-g 296
33. Sioux Valley Stone Co., Chicago. Jasper, rough and wrought. S-17-g 296
34. Winsboro Granite Co., Charleston, S. C. South Carolina granite. S-17-g 296

GROUP 45.

Grinding, Abrading and Polishing Substances.

35. American Tripoli Company, Carthage, Mo. Tripoli rock and ground goods. T-14-g 297
36. Behr, Herman & Co., New York. Flint emery papers and cloth; pumice and rotten stone. S-14-g 297
37. Carborundum Company, Monongahela City, Pa. Crude carborundum; wheels and hones. T-13-g 297
38. Diamond Mills Emery Co., Philadelphia. Powdered and grained emery. L-4 297
39. Pittsburg Crushed Steel Company, Pittsburg, Pa. Crushed steel and steel emery. T-14-g 297
40. Tanite Company, Stroudsburg, Pa. Emery, corundum, tripoli, rotten stone, etc. T-15-g 297

DEPARTMENT E.—MINES, MINING AND METALLURGY.

GROUP 46.

Graphite and Its Products; Clays and Other Fictile Materials and Their Direct Products; Asbestos, etc.

41. Bass Furnace Co., Rock Run, Ala.
Bauxite for manufacture of aluminum. B-28-g 306
42. Borgner, Cyrus, Philadelphia. Fire brick and clay retorts, etc. B-29-g 304
43. Chisholm, Boyd & White, Chicago.
Brickmaking clays and shales, bricks. S-12-g 304
44. Cleveland Fire Brick Co., Cleveland, Tenn. Fire brick and clay. B-29-g 304
45. Denver Fire Clay Co., Denver, Col.
Fire clay and brick. U-32-g 304
46. Dixon, Joseph, Crucible Company, Jersey City, N. J. T-12-g 304
 - a Graphite ore. 298
 - b Graphite lubricants. 300
 - c Electrotypers' graphite. 301
 - d Crucibles and melting pots. 303
47. Johns, H. W., Manufacturing Company, New York. Technical display of asbestos. Q-14 and T-11 307
48. Pacific Asbestos Company, San Diego, Cal. Asbestos. T-11-g 307
49. Phoenix Manufacturing Company, Taunton, Mass. Crucibles. S-11-g 303
50. Taylor, Robert J., & Son, Philadelphia, Pa. Graphite, crucibles, retorts, dipping cups, etc. S-10-g 303
51. Washington Pyrite Co., Washington.
 - a Paper clay, kaolin. S-5-g 304
 - b Mica, talc. 305

GROUP 47.

Limestone, Cements and Artificial Stone.

52. Acme Cement Plaster Co., Salina, Kas.
Cottage built of cement plaster. S-8-g 309
53. American Cement Company, Philadelphia. Cement. S-10-g 309
54. Barber Asphalt Paving Co., New York. Asphalt, asphaltic cement and paving. T-8-g 312
55. Canaan Lime Company, Canaan, Conn.
Lime and limestone; section of plastered wall. S-7-g 309
56. Chicago Fitzgerald Plaster Company, Chicago. Wall plaster. T-8-g 313
57. Coplay Cement Company, Allentown, Pa. Cements and their manufacture. S-7-g 309
 - a Cement. S-8-g 309
 - b Cement plaster. 313
59. Trinidad Asphalt Co., New Jersey.
Asphalt, paving, etc. T-8-g 312
- 59a. Warren Chemical & Manufacturing Co., New York. Asphalt. T-9-g 312
60. Warren-Scharf Asphalt Paving Company, Cincinnati, O. Asphalt street pavement with method of making. T-10-g 312

GROUP 48.

Salts, Sulphur, Fertilizers, Pigments, Mineral Waters, and Miscellaneous Useful Minerals and Compounds.

61. Battelle & Renwick, New York. Salt-peter and refined brimstone. S-4-g 315
63. Manitou Mineral Water Company, Manitou Springs, Col. Mineral waters. S-7-g 321

64. New Iberia Salt Company, New Orleans. Rock salt and statue. S-6-g 314
65. Roessler & Hasslacher Chemical Co., N. Y. Chemicals for mining industries. S-4-g 316
For exhibit see page 425.
66. Saratoga Lithia Spring Company, Saratoga, N. Y. Spring water. S-7-g 321
67. White, T. & S. C., New York. Refined sulphur, virgin rock and flower. S-5-g 317

GROUP 49.

Metallurgy of Iron and Steel, with the Products.

68. Abner Doble Co., San Francisco.
Test of effects of tempering the heads of steel tools subject to blows and shocks. A-30-g 329
69. Alan Wood Company, Philadelphia.
Sheet iron and steel. U-16 334
70. Bicknell, G. A., Cleveland, Ohio.
Chemical process of puddling. C-31-g 327
71. Bethlehem Iron Company, South Bethlehem, Pa. Dept. G 324
 - a Pig iron. 324
 - b Nickel steel. 332
 - c Chrome steel. 333
72. Cambria Iron & Steel Works, Philadelphia. Iron and steel. R-20 334
73. Carpenter Steel Co., Reading, Pa.
Steel specimens. B-29-g 333
74. Chicago Fire-Proof Covering Company, Chicago. Mineral wool, its manufactures and products. B-29-g 333
75. Chrome Steel Works, Brooklyn, N. Y.
Chrome steel castings, welded chrome steel and iron. S-14-s 333
76. Crane Elevator Co., Chicago. Steam reversing engines for rolling mills. Dept. F 328
77. Crescent Steel Company, Pittsburg, Pa. T-20 330
 - a Open hearth steel. 330
 - b Crucible steel. 331
 - c Showing process of manufacture.
78. Dewees, W., Wood Company, Pittsburg, Pa. Iron and steel sheets and plates. T-14 324
79. Elbers, A. D., Hoboken, N. J. Blast furnace slags. B-30-g 322
80. Elwood Ivins' Tube Works, Philadelphia. Metal tubing of steel. B-23-g 334
81. Howe, Henry M., Boston. Steel, illustrating effect of heat treatment. B-30-g 334
82. Illinois Fluor Spar & Lead Co., Chicago. Fluor spar and its processes. B-29-g 322
83. Lancaster, James H., New York.
Direct process. Steel. S-13-g 324
84. Lipe, Chas. E., Syracuse, N. Y. Samples of welding bronze and iron. B-30-g 324
85. Meeker, S. J., Newark, N. J. Malleable iron, gray iron and brass castings. U-15 334
For exhibit see page 813.
86. Pottstown Iron Company, Pottstown, Pa. Steel plate, blooms, nails, etc. U-14 334
87. Sanderson Bros. Steel Company, Chicago. Cast steel. T-16 333

UNITED STATES.

88. Singer, Nimick & Co., Pittsburg, Pa.
Steel. T-21 334
89. Solid Steel Company, Alliance, Ohio.
Steel castings. U-20 333
90. Sterling Steel Company, Pittsburg,
Pa. Steel; armor piercing projectiles.
T-14 334
91. Swartz Iron & Steel Co., Chicago.
Iron and steel. B-29-g 334
92. Tennant, Geo. B., Chicago.
a Bessemer products. B-30-g 328
b Open hearth products. 330
c The metallurgy of iron and steel. 334
93. Trenton Iron Co., Trenton, N. J. Iron
and steel wire. Dept. G. 334
94. Tyler Tube Co., Washington, Pa.
a Charcoal iron blooms. T-21 326
b Charcoal iron tube skelp and boiler
tubes. 334
95. Ulke, Titus, Anaconda, Mont. Slag
and matte illustrating pyritic smelting.
B-24-g 324
96. United States Car Company, Annis-
ton, Ala. Dept. G. 324
a Pig iron, coke, clays and limestone.
b Puddled balls. 327
97. United States Car Co., Chicago.
Merchant iron Dept. F 334
98. Weimer Machine Works Co., Leb-
anon, Pa. Blast furnace plans. S-2-g 323
99. Western Mineral Wool Co., Chicago.
Mineral wool in bulk, mineral wool, insu-
lation minerals. B-29-g 326

GROUP 50.

Aluminum and its Alloys.

100. Cincinnati Pure Aluminum Co., Cin-
cinnati. Aluminum articles. 28-B-g 335
101. Great Western Smelting & Refining
Co., Denver, Col. Aluminum ingots and
specimens. B-28-g 335
102. Hirsh, Joseph M., Chicago. B-28-g
a Aluminum. 335
b Aluminum alloys. 336
103. Pittsburg Reduction Company, Pitts-
burg, Pa. B-28-g
a Aluminum. 335
b Model showing process of manufac-
ture. 338
104. Richards, Jas. W., Bethlehem, Pa.
Aluminum. B-28-g 335

GROUP 51.

Copper and its Alloys. Metallurgy.

105. Chicago Copper Refining Company,
Blue Island, Ill. Electrolytic copper and
its processes. B-23-g 339
106. Copper Queen Consolidated Mining
Co., New York. B-23-g
a Copper ores. 340
b Treatment of copper by wet method.
341
c Copper ingots. 342
107. Crescent Phosphorized Metal Com-
pany, Philadelphia. Phosphor and man-
ganese bronze in pigs; alloy. B-23-g 343
108. Frazer & Chalmers, Chicago.
a Lead and copper furnace apparatus.
S-29 339
b Copper furnace and converter. 340
109. Hirsh, Joseph M., Chicago. Aluminum
bronze. B-28-g 343

110. O'Neill, Andrew, Philadelphia. Plan-
ished copper; electro coppered metals.
B-23-g 342
111. Randolph & Clowes, Waterbury, Conn.
Brass and copper tubing, etc. S-17 342
112. Sattler, B., Golden, Col. Copper-sil-
ver smelting and refining processes.
C-24-g 340

GROUP 52.

Metallurgy of Tin, Tin-Plate, Etc.

113. Crescent Phosphorized Metal Com-
pany, Philadelphia. Phosphor tin alloy.
B-23-g 345

GROUP 53.

Metallurgy of Zinc, Nickel and Cobalt.

114. American Nickel Works, Camden,
N. J. Nickel and cobalt oxides and salts,
blue vitriol, copperas, etc. C-25-g 353
115. Bertha Zinc & Mineral Co., Pulaski,
Va. B-26-g
a Spelter. 347
b Manufactured products of zinc. 348
116. Emmens Metal Company, New York.
a Metallic nickel. C-25-g 350
b Nickel salts. 353
c Nickel alloys. 354
117. Empire Zinc Co., Joplin, Mo. Zinc
in different stages of production. B-26-g 347
118. Wisconsin Lead & Zinc Co., Shulls-
burg, Wis. Production of spelter zinc.
B-29-g 347

GROUP 54.

Metallurgy of Antimony and Other Metals
Not Specifically Classed.

119. Eaton, A. K., Brooklyn, N. Y. Chro-
mium, chromites, alloys, etc. C-25-g 357
120. Kunz, George F., Hoboken, N. J.
Platinum earth, concentrates, etc., and
photographs. C-23-g 359
121. Tiffany & Co., New York. All alloys
of gold and silver. C-23-g
122. Union Electric Co., New York. Lu-
bricating metal. C-25-g 357
123. United States Antimony Company,
Philadelphia. Antimony ores showing
process of reduction to pure antimony.
C-26-g 357

GROUP 55.

Extraction of Gold and Silver by Milling.

124. Bridgman, H. L., Blue Island, Ill.
Ore sampling machine. R-27 360
125. Chicago Iron Works, Chicago.
a Stamp mill. R-22 360
b Amalgamating plant. 362
127. Fraser & Chalmers, Chicago.
a Stamp mill. S-29 360
b Amalgamating barrel. 362
128. Granger, Alvin P., Denver, Col.
Stamp mill and dry ore separator.
U-13 360
129. Mechanical Gold Extractor Co., New
York. Crawford gold extracting mills.
R-14 360
130. Peck, Orrin B., Chicago. Centri-
fugal ore concentrator. S-4 361

DEPARTMENT E.—MINES, MINING AND METALLURGY.

131. Prospective Mining & Machinery Co., Portland, Ore. Stamp, amalgamator and concentrator combined. R-16 360
132. Raymond Bros., Chicago. Pulverizing machinery. 360
134. Sadtler, B., Golden, Col. Apparatus for gold amalgamation. C-24-g 362
135. Seymour, C. E., Lake Geneva, Wis. Mineral concentrators and separators. T-3 362
136. Woodbury, George E., San Francisco. Quartz mill and ore concentrator. T-2 360

GROUP 56.

Extraction of Gold and Silver by Lixivation.

137. Gold and Silver Extraction Mining & Milling Co., Denver, Col. Ore extracting plant. P-15 364
138. Russell Process Company, Park City, Utah. Model of leaching plant. S-3-g 366
139. Sadtler, B., Golden, Col. Processes of leaching. C-24-g 366

GROUP 57.

Extraction of Gold, Silver and Lead by Fire.

140. Chicago Iron Works, Chicago. Smelting and concentrating plants. R-22 367
142. Fraser & Chalmers, Chicago. Lead furnaces. S-29 367
143. Sadtler, B., Golden, Col. Process of volatilization of lead, etc. C-24-g 369

GROUP 58.

Quarrying and Working Stone.

144. Auld & Conger, Cleveland, Ohio. Slate machines and tools; blackboards. T-9 372
145. Bryant, William H., North Amherst, Ohio. Channeling machines. U-10 370
146. General Electric Company, New York. Channeling machine. (Dept. J) 370
147. Ingersoll-Sergeant Drill Company, New York. Track and bar channeller. Q-19 370
148. Kemper, E. G., Monroe, Iowa. Stone sawmill. T-9 373
149. MacKay, H. S., Boston. S-15
a Electric drill for stone quarrying. 370
b Electric stone carving machines. 373
150. Rand Drill Company, New York. Quarry bars. T-25 370
151. Spaulding, A. F., Northfield, Vt. Granite and marble finishing machine. U-11 373
152. Steam Stone Cutter Company, Rutland, Vt. Stone channeling and quarrying machine. R-9 370
153. Stinebring & Cornell, Shreve, Ohio. Granite polishing machine; friction clutch pulley. U-9 373

GROUP 59.

Placer, Hydraulic and Drift Mining.

154. Bucyrus Steam Shovel & Dredge Co., Bucyrus, Ohio. Placer mining machinery; steam shovel. P-23 374

GROUP 60.

Tools and Appliances of Underground Mining, Timbering and Supporting.

155. Brown, Samuel S., Pittsburg, Pa. Safety incandescent lamps for mines. S-8 380
156. Colliery Engineer Company, Scranton, Pa. Safety lamps for mines. T-21-g 380
157. General Electric Company, New York. Method of lighting mines; electric blowers, fans and air compressors. (Dept. J) 380

GROUP 61.

Boring and Drilling Tools and Machinery, and Apparatus for Breaking out Ore and Coal.

158. American Well Works, Aurora, Ill.
a Diamond boring, prospecting and sinking machinery. (Outside) 384
b Drilling tools, and hydraulic well sinking machinery. 386
159. Atkinson, Geo., Oakland, Cal. Well-boring machinery. (Outside) 385
160. Birkin, Wm. A. G., New York. Electro-magnetic rock drill. S-16 383
161. Brown, Samuel S., Pittsburg, Pa. Coal mining machines. S-8 387
162. Bullock, M. C., Manufacturing Company, Chicago. P-21
a Hand diamond drill. 382
b Rock drills. 383
c Diamond drills. 384
d Well boring rig and derrick. 385
164. General Electric Company, New York.
a Electric drills. (Dept. J) 384
b Electric coal cutters. 387
165. Ingersoll-Sergeant Drill Company, New York. Q-19
a Drills and tripods. 383
b Coal cutter. 387
166. Jeffrey Manufacturing Company, Columbus, O. T-8
a Electric power and air drills. 383
b Coal mining machinery. 387
167. Jones, Robert M., Salt Lake City, Utah. Electric diamond drill. S-15 384
168. Keystone Driller Company, Beaver Falls, Pa. Drilling machines. (Outside) 383
169. Kirk, Arthur, & Son, Pittsburg, Pa. Mining tools and imitation samples of powder and high explosives. T-15 382
170. McCune, W. A., & Co., Sterling, Ill. Hand and power drills. R-7 383
171. MacKay, H. S., Boston. Electric drill for mining. S-15 383
172. Miller, Dr. G. A., Colfax. Gravity torpedo excavator for mining and well boring. (Outside) 385
173. Moody & Sherwood, Fresno, Cal. Giant powder fuse cap fastener. R-2 382
174. Moreau, Eugene, Philadelphia. Hand rock drills. R-13 382
175. Morgan, A. W., Springfield, Ill. Well-making machinery. (Outside) 386
176. Morgan, Kelly & Taneyhill, Waterloo, Iowa. Well drilling machinery. (Outside) 385
177. New Lechner Electric Mining Machine Company, Columbus, O. Electric mining machines; coal drill. R-6 383

UNITED STATES.

178. Oil Well Supply Company, Pittsburg, Pa. Tools and methods for boring water, oil or gas. (Outside) 386
179. Pope, J., & Sons, Manchester, Me. Granite wedges and half rounds. T-10 381
180. Rand Drill Company, New York. Compressed air and power drills. T-25 383
For exhibit see page 1003.
181. Sullivan Machinery Company, Chicago. R-7
a Diamond and steam rock drills. 384
b Coal mining machines. 387
182. Star Drilling Machine Company, Akron, O. Drilling machines. (Outside) 383
183. Saydam, John, Albany, N. Y. Metal flexible joint. S-3 386

GROUP 62.

Pumps, Engines and Apparatus used in Mining for Pumping, Draining and Hoisting.

185. American Well Works, Aurora, Ill. Mining pumps. (Outside)
186. Brown, Samuel S., Pittsburg, Pa. Lift for mines and crafts. S-8
187. Bullock, M. C., Manufacturing Company, Chicago. Air compressors, engines and hoist. P-21
188. Chicago Iron Works, Chicago. Air compressors, hoisting and pumping engines. 22-R
189. Crane Elevator Co., Chicago. Steam mine hoisting engine and cages. (Dept. F)
190. Eclipse Wind Engine Company, Beloit, Wis. Pumps, engines and apparatus. Q-18
For exhibit see page 769.
191. Fraser & Chalmers, Chicago. Hoists. S-29
192. General Electric Company, New York. Electric pumps. Dept. J
193. Goulds' M'fg Co., Seneca Falls, N. Y. Deep mine pump. (Dept. J)
194. Jeffrey Manufacturing Company, Columbus, O. Electric power pump. T-8
195. Leffel, James, & Co., Springfield, O. Water wheels, horizontal boiler and engines. R-12
196. Roots, P. H. & F. M., Co., Connersville, Ind. Blowers, engines, force pumps, gas exhausters, etc. R-25
197. Webster, Camp & Lane, Akron, Ohio. Air compressor, engine and hoisting plant. P-16

GROUP 63.

Moving, Storing and Delivering Ores, Coals, etc.

198. Borden & Selleck Co., Chicago. Conveyers of coal. S-5 388
199. Bradley Fertilizer Company, Boston. Elevator for roller mill. U-11 388
200. Corey Car and Manufacturing Company, Chicago. Cars, switches and turntables. T-4 389

201. Fraser & Chalmers, Chicago. Bul- lion moulds, cars, pots, etc. S-29 389
202. General Electric Company, New York. Electric locomotives. (I-N-33; Dept. J) 388
203. Jeffrey Manufacturing Company, Columbus, Ohio. a Elevating and conveying machinery. T-8 388
b Car for mines. 389
204. Lancaster, James, H., New York. Hoisting machine. T-13 388
205. Nelsonville Foundry & Machine Co., Nelsonville, Ohio. Slide valve engine. R-4 388
206. Ottumwa Iron Works, Ottumwa, Ia. Tail rope haulage, engine and fixtures. (In service.) 388
207. Pittsburg Coal Exchange, Pittsburg, Pa. Miniature steamboat for coal barges. S-1-g 388
208. Trenton Iron Company, Trenton, N. J. Wire rope tramway. (In service.) 388
209. True Manufacturing Company, Denver, Col. Dumping ore car. S-5 389
210. Watt Mining Car Wheel Company, Barnesville, Ohio. Mine cars, car wheels, and axles. S-3 389

GROUP 64.

Apparatus for Crushing and Pulverizing.

211. American Manufacturing, Mining & Milling Co., Cleveland, Ohio. Crushers and pulverizers. Q-19 392
212. American Road Machine Co., Kennett Square, Pa. Stone crusher. Dept. F 392
213. Bradley Fertilizer Company, Boston. Roller mills. T-11 396
For exhibit see page 765.
216. Gates Iron Works, Chicago. a Rock and ore breakers. Q-16 392
b Cornish rolls. 393
218. Krom, S. R., New York. Mill for crushing and pulverizing ores. R-10 392
219. Lancaster, James, H., New York. a Rock breaker and ore crusher. T-13 392
b Combined crusher, rolls and screen. 393
c Ore and rock granulators. 396
220. McCully, Robert, Philadelphia. Rock crushers and granulators. R-8 392
221. Raymond Bros., Chicago. Ball pulverizers. R-11 396
223. Sturtevant Mill Company, Boston. Mill for crushing and grinding ore and other material. R-15 392
224. Woodbury, George, E., San Francisco. Ore breaker and feeder. S-2 392

GROUP 65.

Sizing Appliances.

225. Aitchison, Robert, Perforated Metal Company, Chicago. a Grizzlies for placer mining. S-13 398
b Perforated plates. 399
226. Borden & Selleck Co., Chicago. Coal elevator and screen. S-5 398
227. Common Sense Separator Manufacturing Company, Elkhart, Ind. Separator for sand, gravel, minerals, etc. R-15 398
228. Fraser & Chalmers, Chicago. Perforated metal. S-29 399

DEPARTMENT E.—MINES, MINING AND METALLURGY.

229. Jeffrey Manufacturing Company, Columbus, Ohio. Revolving screen. T-8 398
 230. Krom, S. R., New York. Pneumatic jigs for concentrating ores. R-10 401
 231. Raymond Bros., Chicago. Pneumatic separators. R-11 401
 232. Sackett, H. B., Council Bluffs, Iowa. Coal and barrel screens. R-1 398

GROUP 66.

Assaying Apparatus and Fixtures.

233. American Manufacturing, Mining & Milling Co., Cleveland, Ohio. Furnaces. Q-19 404
 234. Hoskins, Wm., & Co., Chicago. Furnaces and blast lamps. S-32-g 404
 235. Pittsburg Testing Laboratory, Pittsburg, Pa. Exhibit of analytical chemistry with samples. R-34-g 403
 236. Richards & Co., Chicago. S-32-g 404
 a Furnaces, muffles and appliances. 404
 b Scorification and cupelling apparatus. 405
 c Volumetric methods and apparatus. 406
 d Assay balances, etc. 408
 e Assay tables, schemes and methods. 409

GROUP 67.

History and Literature of Mining and Metallurgy.

237. American Book Company, New York. Works on geology. D-32-g 411
 238. Andrews, W. C., New York. Transporting coal in pipe line. T-1 412
 239. Atkinson, George, Oakland, Cal. Model of well boring machinery. S-2-g 410
 240. Barber Asphalt Co., New York. Photographs of pavements, etc. T-8-g 410
 241. Black Diamond Company, Chicago. Coal and coal mining journal. D-32-g 411
 242. Blackie & Son, Glasgow, Scotland. Books. D-32-g 411
 243. Brumelkamp, J. P., Syracuse, N. Y. Pictures of the salt reservation. D-32-g 410
 244. Bruner, T. K., Raleigh, N. C. Books on minerals of North Carolina. D-32-g 411
 245. Brunton, D. W., Aspen, Col. Model. T-3-g 410
 246. Callaghan & Co., Chicago. Mining reports. D-32-g 411
 247. Chain & Hardy Book Co., Denver, Colo. Works on mining, geology and prospecting. D-32-g 411
 248. Coal Trade Journal Company, New York. Journal. D-32-g 411
 249. Colliery Engineer Company, Scranton, Pa. Works on mining and metallurgy. Colliery Engineer. D-32-g 411
 250. Cope, George W., Chicago. "The Iron Age," "The Metal Worker," "Carpenry and Building." D-32-g 410
 251. Copper Queen Consolidated Mining Company, Bisbee, Arizona. Models of the underground workings. U-2-g 410
 252. Copper Queen Consolidated Mining Co., New York. Model of furnace. U-2-g 410
 253. Douglas, James, Bisbee, Ariz. Model of calcining furnace. S-3-g 410

254. Elk Hill Coal & Iron Co., Scranton, Pa. Photograph of steel tower and coal-breaker. D-32-g 410
 255. Frick, H. C., Coke Company, Scottsdale, Pa. Model of coal and coke works. S-24-g 410
 256. Gates Iron Works, Chicago. Models of rock breakers and Cornish rolls. Q-16 410
 257. Goldthwaite, Wm. M., New York. Book on minerals and metals. K-4-g 411
 258. Harper Bros., New York. Books. D-32-g 411
 259. Harris, William, Kingston, New Mexico. Expert mining map. D-32-g 410
 260. Houghton, Mifflin & Co., Boston. Books on coal mining and geology. D-32-g 411
 261. Ives, James T. B., Philadelphia. Strata and altitude maps. D-32-g 410
 262. Lancaster, James H., New York. Models of deoxidizers and melting furnaces. S-13 410
 263. Lehman, George M., Philadelphia. Navassa model. T-2-g 410
 264. Mining News Publishing Company, Seattle, Wash. Newspaper. D-32-g 411
 265. Rice & Hageman, Sapinero, Col. Mineral map of Colorado. D-32-g 411
 266. Rossiter, Raymond W., New York. Transactions American Institute of Mining Engineers, 1871 to 1891. D-32-g 411
 267. Sanborn, J. B. Company, Chicago. Coal dealers' blue book. D-32-g 411
 268. Smythe, A. H., Columbus, Ohio. Book. D-32-g 411
 269. Sturtevant Mill Company, Boston. Model of mill. R-15 410
 270. Thomas, F. H., Law Book Company, St. Louis. Work on American mining law. D-32-g 411
 271. Thompson, Charles T., Philadelphia. Models of magnetic iron ore separators. S-2-g 410
 272. Trinidad Asphalt Co., New York. Relief model of Pitch Lake on the island of Trinidad. T-8-g 410
 273. Truax Manufacturing Company, Denver, Col. Model of ore car and stand. S-5 410
 274. United States Geological Survey, Washington, D. C. Statistical pyramid of minerals and metals. K-4-g 411
 275. United States Surveyor General, Denver, Col. Maps and plates of mineral and land surveys in Colorado. D-32-g 410
 276. Walburn Swenson Co., Chicago. Model of works for concentrating low grade ores. S-2-g 410
 277. Ward, Henry A., Rochester, N. Y. Relief maps. T-28-g 410
 278. Webster, Camp & Lane, Akron, Ohio. Photographs and plans of mining plants. P-16 410
 279. West, Thomas D., Cleveland, Ohio. Books on metallurgy, etc. D-32-g 411

GROUP 68.

- Originals or Reproductions of Early and Notable Implements and Apparatus used in Mining and Metallurgy.
 280. Lynn, City of, Mass. First iron casting ever made in America. B-31-g

ARIZONA.

GROUP 42.

1. Bain, T. C., Cochise County. Gold ore. 291
2. Bartholomew, J. W., Cochise County. Gold and silver ores. 291
3. Barron, A., & Co., Cochise County. Lead, silver and zinc ores. 291
4. Barrett, T., & Bauer, Cochise County. Silver and lead ores. 291
5. Berry, Cameron & Gale, Cochise County. Gold and silver ores. 291
6. Blackfoot Mine, Mohave County. Gold and silver ores. 291
7. Bonelli, D., Mohave County. Vanadinite. 291
8. Bower, A., Cochise County. Silver and lead ores. 291
9. Brown, Moore & Co., Cochise County. Gold, silver and lead ores. 291
10. Casey Bros., Cochise County. Gold nuggets 291
11. Coalbank Mine, Cochise County. Gold and lead ores. 291
12. Contention Mine, Cochise County. Gold and silver ores. 291
13. Contention Mining Co., Cochise County. Gold, silver and lead ores. 291
14. Cook, H., Cochise County. Silver and lead ores. 291
15. Cook & Smith, Cochise County. Silver ore. 291
16. Copper Queen Consolidated Mining Co., Cochise County. Silver ore. 291
17. Cottonwood Mine, Cochise County. Gold and lead ores. 291
18. Cougar Mining Co., Cochise County. Gold, silver and lead ores. 291
19. Cross & Hitchcock, Mohave County. Gold and silver ores. 291
20. Dennis & Lynch, Mohave County. Silver ore. 291
21. DeLong, S. R. Cochise County. Gold ore. 291
22. Distaff Mine, Mohave County. Gold, silver and lead ores. 291
23. Dives Mine, Cochise County. Gold ore. 291
24. Duncan, Mr., Cochise County. Gold, silver and lead ores. 291
25. Elkhart Mine, Mohave County. Lead ore. 291
26. Emma Mine, Cochise County. Gold ore. 291
27. Empire Mining & Milling Co., Cochise County. Gold and silver ores. 291
28. English, Allen, Cochise County. Gold ore. 291
29. Ewing, H. P., Mohave County. Gold and silver ores. 291
30. Fall, J. E., Cochise County. Gold and silver ores. 291
31. Finale Mine, Cochise County. Gold, silver and lead ores. 291
32. First Chance & Philadelphia Mines, Cochise County. Gold ore. 291
33. Fitts & Wilkes, Cochise County. Silver ore. 291
34. Frost & Blakely, Mohave County. Gold and silver ores. 291
35. Froud, A., Cochise County. Silver and lead ores. 291
36. Gage & Barrett, Cochise County. Silver and lead ores. 291
37. Gage & Leach, Cochise County. Gold and silver ores. 291
38. Gattrell, Donnelly & Co., Cochise County. Silver ore. 291
39. Gertrude Mine, Cochise County. Gold ore. 291
40. Golden Rule Mine, Cochise County. Gold ore. 291
41. Grand Central Consolidated Mining Co., Cochise County. Gold, silver and lead ores. 291
42. Great American Mining Co., Cochise County. Gold and silver ores. 291
43. Herring & Co., Cochise County. Gold, silver and lead ores. 291
44. Herring, William, Cochise County. Gold and silver ores. 291
45. Imperial Mine, Cochise County. Gold and silver ores. 291
46. Ingraham & Co., Cochise County. Silver ore. 291
47. Johnson & Co., Cochise County. Gold, silver and lead ores. 291
48. Josephine Mine, Cochise County. Gold and silver ores. 291
49. Junietta Mining Co., Cochise County. Horn silver. 291
50. Larrimore & Booth, Cochise County. Gold, silver and lead ores. 291
51. Martinez, M., & Co., Mohave County. Silver glance. 291
52. Mayflower Mine, Cochise County. Gold and silver ores. 291
53. McFadden Bros., Cochise County. Silver ore. 291
54. McMahon & Co., Cochise County. Silver and lead ores. 291
55. Meade & Leach, Cochise County. Silver and gold ores. 291
56. Melcher & Dodge, Cochise County. Gold and silver ores. 291
57. Merrimac Mining, Milling & Refining Co., Cochise County. Silver ore. 291
58. Monte Christo Mine, Cochise County. Silver ores. 291
59. Murphy, J. M., Mohave County. Gold, silver and lead ores. 291
60. Night Hawk Mining Co., Mohave County. Gold and silver ores. 291
61. Old Guard Mining and Milling Co. Cochise County. Gold, silver and lead ore. 291
62. Peabody Mine, Cochise County. Silver ore. 291

DEPARTMENT E.—MINES, MINING AND METALLURGY.

63. **Providential & Emma Brent Mines**, Cochise County. Gold and silver ores. 291
64. **Rainbow Mine**, Mohave County. Gold and lead ores. 291
65. **Randolph Mining & Milling Co.**, Cochise County. Silver and lead ores. 291
66. **Rattlesnake Mining Co.**, Cochise County. Gold, silver and lead ores. 291
67. **Rogers Bros.**, Mohave County. Gold and silver ores. 291
68. **Russell & Zeimer**, Mohave County. Gold and silver ores. 291
69. **Sampson Gold Co.**, Cochise County. Gold ore. 291
70. **San Pedro Mining Co.**, Cochise County. Gold and silver ores. 291
71. **Savells, J. J.**, Cochise County. Gold ore. 291
72. **Searce, I.**, Cochise County. Silver ore. 291
73. **Silver Bill Mining Co.**, Cochise County. Gold, silver and ores. 291
74. **Silver Cave South Mine**, Cochise County. Gold, silver and lead ores. 291
75. **Silver Cloud Mining Co.**, Cochise County. Gold and silver ores. 291
76. **Silver Thread Mining Co.**, Cochise County. Gold and silver ores. 291
77. **Smith & Desty**, Mohave County. Gold ore. 291
78. **Smith, O. C.**, Cochise County. Silver ore. 291
79. **Sorin M.**, Cochise County. Collection of minerals. 290
80. **Sorin, T. R.**, Cochise County. Collection of minerals. 290
81. **Spruante, Stanley & Co.**, Mohave County. Silver and lead ores. 291
82. **Start Bros.**, Cochise County. Silver and lead ores. 291
- 82a. **Stonewall Mining Co.**, Cochise County. Silver and manganese ores. 291
83. **Sullivan, J.**, Cochise County. Silver ore. 291
84. **Sunnyside Mine**, Cochise County. Gold ore. 291
85. **Theis, F. W.**, Mohave County. Gold, silver and lead ores. 291
86. **Thompson, E. F.**, Mohave County. Silver ore. 291
87. **Tombstone Mining & Milling Co.**, Cochise County. Gold, silver and lead ores. 291
88. **Tom Scott Mine**, Cochise County. Gold, silver and lead ores. 291
89. **Tranquility Mining Co.**, Cochise County. Gold and silver ores. 291
90. **United Verde Copper Co.**, Cochise County. Gold ore. 291
91. **Vizina Mining Co.**, Cochise County. Silver ore. 291
92. **Watkins, H. H.**, Mohave County. Lead ore. 291
93. **Williams, O.**, Cochise County. Gold ore. 291
94. **Woodchoppers Relief Mine**, Mohave County. Silver ore. 291
- GROUP 44.**
95. **Robinson & Scow**, Cochise County. Onyx. 296
- GROUP 46.**
96. **Bonelli, D.**, Mohave County. Mica. 305
- GROUP 48.**
97. **Bonelli, D.**, Mohave County. Rock salt. 314
- GROUP 51.**
98. **Bartholomew, J. W.**, Cochise County. Copper ore. 340
99. **Berner, W. J.**, Cochise County. Copper ore. 340
100. **Berry, Cameron & Gale**, Cochise County. Copper ore. 340
101. **Blackfoot Mine**, Mohave County. Copper ore. 340
102. **Cheney, G. W.**, Cochise County. Copper ore. 340
103. **Copper Queen Consolidated Mining Co.**, Cochise County. Copper ore. 340
104. **Cross & Hitchcock**, Mohave County. Copper ore. 340
105. **Fall, J. E.**, Cochise County. Copper ore. 340
106. **Gattrell, Donnelly & Co.**, Cochise County. Copper ore. 340
107. **Imperial Mine**, Cochise County. Copper ore. 340
108. **Martinez, M., & Co.**, Mohave County. Copper ore. 340
109. **Peabody Mine**, Cochise County. Copper ore. 340
110. **Pure Metal Mine**, Mohave County. Copper ore. 340
111. **United Verde Copper Co.**, Cochise County. Copper ore. 340
112. **Wisconsin Mine**, Cochise County. Copper ore. 340

CALIFORNIA.

GROUP 42.

1. Lindy, Thomas, Livermore. Rock pebbles and petrifications. 291
2. Millar, E. B., Los Angeles. Free milling gold ore. 291
3. Morrow, W. J., Orange County. Yellow carbonate. 291
4. Santiago Mining Co., Orange County. Dark galena silver and lead ores. 291
5. Santiago Mining Co., Orange County. Silver and lead ores. 291
6. Shirley, J. W., Orange County. Silver and lead ores. 291
7. Shirley & Ball, Orange County. Silver and lead ores. 291
8. Shirley & Wood, Orange County. Silver and lead ores. 291
9. Wirtz & Fulton, Sacramento. Collection of minerals. 290

GROUP 43.

10. Union Oil Co., Santa Paula.
 - a Asphaltum. 293
 - b Petroleum, illuminating and lubricating oils. 294

GROUP 44.

11. Banning Bros., Los Angeles. Soapstone. 296

GROUP 47.

12. Alpine Plaster & Cement Co., Los Angeles. Gypsum. 313
13. Gulick, W. N., Orange County. Gypsum. 313

GROUP 48.

14. Plummer Bros., Alameda. California crystal salt. 314

GROUP 50.

15. Day, Richard, San Diego. Aluminum. 335

GROUP 51.

16. Shirley, J. W., Orange County. Copper ores. 340

GROUP 54.

17. Mathison Smelting Co., San Francisco. Star antimony. 356
18. Morine, James, Orange County. Quicksilver. 359

COLORADO.

GROUP 42.

1. Burnett & Tays, Gunnison. Minerals and ores. 291
2. Colorado School of Mines, Golden. Minerals of Colorado. 290
3. Colorado Scientific Society, Denver. Eruptive rocks, meteorite. 291
4. Cotton, Mrs. A. L., Silverton. Minerals. 291
5. Fuller, F. W., Irwin. Silver ores. 291
6. Haberl, A. F., & Bros., Denver. Gems, crystallography. 291
7. Jennings, N., Gunnison. Minerals and ores. 291
8. Ladies of Canon City, Canon City. Collection of minerals. 290
9. Mininger, Frank, & Pierson, J. H., Quarry. Minerals and ores. 291
10. Reynolds, F. A., Canon City. Gold ores. 291
11. Splane, D. J., Crested Butte. Collection of minerals. 290
12. Tingley, S. Wood, Leadville. Gold ores. 291
13. Walker, Willis, Castle Rock. Agates and crystals. 291
14. Williams, D. J., Silverton. Minerals and ores. 291
15. Wood, Henry E., Denver. Silver and stone. 291

GROUP 43.

16. Atchison, Topeka & Santa Fe R. R. Co., Denver. Coal and coke. 292
17. Colorado Fuel & Iron Co., Denver. Coal and coke. 292
18. Natural Oil & Gas Co., Meeker. Natural lubricating oil. 294
19. Rocky Mountain Oil Company, Pueblo. Petroleum and its products. 294
20. United Coal Company, Denver. Coal and coke. 292
21. White Rock Oil, Gas & Mineral Prospecting Co., Boulder. Natural lubricating oil. 294

GROUP 44.

22. Ackroyd, E., & Co. Denver. Lava stone. 296
23. American Red Stone Company, Denver. Red sandstone. 296
24. Bond, Dr., Boulder. Sandstone. 296
25. Davis, Creswell & Co., Denver. Marble. 296
26. Geddis & Seerie, Denver. Granite. 296
27. Greenlee & Sons, Denver. Red Sandstone. 296
28. Griffith, Philip, Coal Creek. Sandstone. 296
29. Kelly, D. J. & Co., Denver. Marble. 296

DEPARTMENT E.—MINES, MINING AND METALLURGY.

30. Ladies of Cañon City, Cañon City. Marble. 296
 31. Martin & Gray, Denver. Granite. 296
 32. McGilvray, J. D., & Co., Denver. Granite, sandstone and alabaster. 296
 33. Sites & Buell, Denver. Sandstone. 296
 34. Snider Stone & Lime Co., Denver. Sandstone. 296
 35. Walker, Willis, Castle Rock. Agates. 296
 36. Weaver, Geo., Denver. Marble. 296

GROUP 45.

37. Colorado Turkey Honestone Company, Morrison. Grindstones, hones and whetstones. 297

GROUP 46.

38. Colorado Hammer Brick Company. Pueblo. Clay and brick. 304
 39. Golden Pressed Brick Company, Golden. Clays and bricks. 304
 40. Hoyt, C. P., Golden. Clays, kaolin and silica. 304
 41. Railroad Mica Lubricating Company, Denver. Ground mica. 305

GROUP 47.

42. Denver Gypsum Company, Denver. Gypsum. 313
 43. English, R. W., Company, Denver. Raw and burned lime. 309

GROUP 48.

44. Pike's Peak Mineral Water Company, Manitou. Mineral water. 321

GROUP 49.

45. Colorado Iron & Fuel Co., Pueblo.
 a Ore mixtures, fluxes, etc. 322
 b Pig and cast iron and mixtures. 324
 c Bessemer machinery. 328
 d Iron and steel bars, rods, etc. 334

GROUP 51.

46. American Zinc & Lead Co., Cañon City. Crude and refined products of copper. 339

GROUP 56.

47. Holden Smelting & Milling Co., Leadville. Lixiviation process. 366

GROUP 57.

48. American Smelting Company, Leadville. Smelting and new processes. 367
 49. Arkansas Valley Smelting & Refining Co., Leadville. Smelting and new processes. 367
 50. Bimetallic Smelting Company, Leadville. Smelting and new processes. 367
 51. Boston & Colorado Smelting & Refining Co., Denver. Smelting and new processes. 367
 52. Colorado Smelting Company, Pueblo. Smelting and new processes. 367
 53. Globe Smelting & Refining Co., Denver. Smelting and new processes. 367
 54. Harrison Reduction Works, Leadville. Smelting and new processes. 367
 55. Holden Smelting & Milling Co., Leadville. Smelting process. 367
 56. Omaha & Grant Smelting & Refining Co., Denver. Smelting and new processes. 367
 57. Philadelphia Smelting & Refining Co., Pueblo. Smelting and new processes. 367
 58. Pueblo Smelting & Refining Co., Pueblo. Smelting and new processes. 367
 59. Rico Smelter, Rico. Smelting and new processes. 367
 60. San Juan Smelting & Refining Co., Durango. Smelting and new processes. 367
 61. Summit Mining & Smelting Co., Kokomo. Smelting process. 367

GROUP 67.

62. Van Diest, P. H., Denver. Map of geographic movements. 410
 63. Wulsten, Carl M. E., Silver Cliff. Map illustrating granite lime contact. 410

CONNECTICUT.

GROUP 44.

1. Bolles, N., & Son, New Preston. Granite. 296
 2. Booth Bros. & Hurricane Isle Granite Co., New London. Granite. 296
 3. Burnham, H. C., Hadlyme. Granite. 296
 4. Crissey, R. I., Norfolk. Granite. 296
 5. Garvey Bros., Sterling. Granite. 296
 6. Millstone Granite Co., Niantic. Granite. 296

7. New England Brownstone Co., Cromwell. Brownstone. 296
 8. Norcross Bros., Stony Creek. Gray granite. 296
 9. Plymouth Quarry Co., Thomaston. Granite. 296
 10. Shaler & Hall Quarry Co., Portland. Brownstone. 296
 11. Stony Creek Red Granite Co., Stony Creek. Red granite. 296
 12. Wolcott, Chas. O., Buckland. Red sandstone. 296

FLORIDA.

GROUP 42.

- | | | | |
|---|-----|--|-----|
| 1. Alachua County. Collection of phosphates. | 291 | 13. Lee County. Collection of phosphates. | 291 |
| 2. Baker County. Collection of phosphates. | 291 | 14. Leon County. Collection of phosphates. | 291 |
| 3. Bradford County. Collection of phosphates. | 291 | 15. Levy County. Collection of phosphates. | 291 |
| 4. Citrus County. Collection of phosphates. | 291 | 16. Manatee County. Collection of phosphates. | 291 |
| 5. Columbia County. Collection of phosphates. | 291 | 17. Marion County. Collection of phosphates. | 291 |
| 6. De Soto County. Collection of phosphates. | 291 | 18. Orange County. Collection of phosphates. | 291 |
| 7. Hamilton County. Collection of phosphates. | 291 | 19. Pasco County. Collection of phosphates. | 291 |
| 8. Hernando County. Collection of phosphates. | 291 | 20. Polk County. Collection of phosphates. | 291 |
| 9. Hillsborough County. Collection of phosphates. | 291 | 21. Sumter County. Collection of phosphates. | 291 |
| 10. Jefferson County. Collection of phosphates. | 291 | 22. Suwanee County. Collection of phosphates. | 291 |
| 11. Lafayette County. Collection of phosphates. | 291 | 23. Taylor County. Collection of phosphates. | 291 |
| 12. Lake County. Collection of phosphates. | 291 | 24. Turman, Solon B., Commissioner, Tampa. Collection of minerals. | 291 |
| | | 25. Wakulla County. Collection of phosphates. | 291 |

IDAHO.

GROUP 42.

- | | | | |
|---|-----|---|-----|
| 1. Allen, Levi, Salubria. Country rock, galena, synite and petrification. | 291 | 16. Black, James, Hailey. Galena. | 291 |
| 2. Ambrose & Russell, Salmon City. Iron ore, pyrites, gold and silver ore, horn silver, galena, etc. | 291 | 17. Blakley & Co., Bellevue. Lead and silver ore. | 291 |
| 3. Anderson, Andrew, Gibbonsville. Gold and iron pyrites. | 291 | 18. Bodenhamer, W. H., Sweet. Talcose. | 291 |
| 4. Badger Mining & Milling Co., Custer City. Gold, silver and lead sulphurets. | 291 | 19. Boxwell, Frank, Salmon City. Gold, silver and iron ores. | 291 |
| 5. Bald Mountain Mining & Smelting Co., Ketchum. Galena. | 291 | 20. Boulder Mining Company, Bonner's Ferry. Lead-silver. | 291 |
| 6. Balkeck, Charles, Idaho City. Gold quartz; amethysts. | 291 | 21. Brayden, Mr., Hailey. Galena. | 291 |
| 7. Barbour, M. A., Quartzburg. Gold quartz. | 291 | 22. Brisbin, Edward, Boise City. Galena, gold quartz and iron geodes. | 291 |
| 8. Barry, Thomas, Idaho City. Gold quartz. | 291 | 23. Brown Gum, Albion. Gold ore. | 291 |
| 9. Barclay, J. C., Gibbonsville. Gold and iron pyrites. | 291 | 24. Brown & Tyler, Houston. Lead and silver. | 291 |
| 10. Beatty, Judge, Boise City. Galena. | 291 | 25. Bullwhacker Mine. Galena. | 291 |
| 11. Beate, James, Silver City. Talcose. | 291 | 26. Bunker Hill & Sullivan Mining Co., Wallace. Lead carbonates. | 291 |
| 12. Beatty, Mr., Hailey. Galena. | 291 | 27. Burton, J. W., Custer City. Gold; silver-lead; galena; gold quartz. | 291 |
| 13. Beck & Sons, Gibbonsville. Gold and iron pyrites and quartz. | 291 | 28. Butler & York, Gibbonsville. Gold and iron pyrites. | 291 |
| 14. Berg, Charles, Custer City and Bonanza. Ores from Hope, Belcher, Captain and Hidden Treasure mines. | 291 | 29. Buttercup Mining & Milling Co., Hailey. Galena. | 291 |
| 15. Berry, R. W., Hailey. Steel galena. | 291 | 30. Calahan & Hemington, Bellevue. Galena. | 291 |
| | | 31. Campbell, D. B., Bellevue. Galena. | 291 |
| | | 32. Carroll Mine, Bonanza. Gold and silver ores. | 291 |
| | | 33. Carroll, John, Bonanza. Silver ore. | 291 |
| | | 34. Cassedy, John, Challis. Oxide of iron. | 291 |

DEPARTMENT E.—MINES, MINING AND METALLURGY.

35. Childs & Warrington, Hope. Silver ore. 291
36. Coeur de Alene Lead-Silver Mining Company, Wallace. Lead ore. 291
37. Colorado Gold Mining Company, Gibbonsville. Gold and iron ores and rose quartz. 291
38. Colorado Gold Quartz Mining Company, Gibbonsville. Gold and iron pyrites. 291
39. Continental Mining & Milling Co., Custer City. Blue sulphurets, gold and silver ores. 291
40. Couchanour, Dave, Quartzburg. Gold quartz, porphyry and vein matter. 291
41. Coyle, P. A., Bellevue. Silver ore and sulphurets. 291
42. Clark, Charles, Bay Horse. Arsenites of gold, silver, copper and lead. 291
43. Clay, H. H., Bellevue. Galena. 291
44. Clayton & Omaha Mining & Smelting Co., Clayton. Ores from Silver Rule, Redbird and Skylark mines. 291
45. Clipper-Bullion Mine, Salmon City. Wall rock. 291
46. Clawson, C. C., Bonanza. Ores from Bismarck and Villa Franca mines. 291
47. Clayton Mining & Smelting Co., Bay Horse. Gold, silver, lead and ruby ores. 291
48. Crook, A. J., Clayton. Petrified wood. 291
49. Crutcher, J. I., Silver City. Iron sulphurets. 291
50. Cunningham, C., Wallace. Lead ore. 291
51. Custer County. Petrified wood. 291
52. Custer Mining Company, Wallace. Lead carbonates. 291
53. Dewey, E. H., Silver City. Sulphurets, magnesian rock. 291
54. De Lamar Mining Company, De Lamar. Sugar sand and argentite. 291
55. Dickens-Custer Company, Custer City. Silver ores. 291
56. Dilley, Judge, Bellevue. Galena. 291
57. Dosey, Dave, Custer City. Soda ore. 291
58. Drum, A. W., Centerville. Silver and quartz. 291
59. Dyer & Marks, Spokane, Wash. Lead ore from Eureka mine, Idaho. 291
60. Edwards, E. G., Gibbonsville. Quartz, gold and iron ores. 291
61. Elmira Silver Mining Company, Banner. Iron sulphurets, galena and silver. 291
62. Fair, Mr., Hailey. Galena. 291
63. Fay, Jerry, Gibbonsville. Gold and iron ores; quartz. 291
64. Feour & Gearhart, Silver City. Wire silver. 291
65. Field, Eugene J., Placerville. Gold quartz. 291
66. Fitzgerald, Dick, Bay Horse. Ore from Fitzgerald mine. 291
67. Flannery, Edward, Hailey. Galena. 291
68. Ford, Allie, Lemhi Agency. Gold-silver ore. 291
69. Foster & Peel, Lakeview. Lead ores. 291
70. Fourth of July Mining & Milling Co., Custer City. Gold and silver sulphurets. 291
71. Frame, William, Quartzburg. Galenas. 291
72. Frenchman Mine. Galena. 291
73. Frenchy, Andrew, Hailey. Galena. 291
74. Frency, J., Hailey. Iron pyrites. 291
75. Genot & Price, Hope. Silver ore. 291
76. Gibbon Mine, Gibbonsville. Gold and iron quartz. 291
77. Gilliland & Tew, Placerville. Gold quartz. 291
78. Gilmore's Estate & Chambers, Shoup. Gold quartz; pyrites; sulphurets and carbonates. 291
79. Gold Hill Mining Company, Quartzburg. Free gold. 291
80. Gordon, H., Bellevue. Galenas. 291
81. Granger, Jim, Hailey. Galena. 291
82. Grand Prize Mining & Milling Co., Houston. Lead-silver. 291
83. Granite Mining Company, Wallace. Lead ore. 291
84. Gray, C. M., Albion. Ores. 291
85. Gray Eagle Mine. Silver ore. 291
86. Guphittis & Co., Bellevue. Lead-silver ore. 291
87. Halverson, G. L., Gray. Gold bearing gravel. 291
88. Hecla Mining Company, Wallace. Lead ore. 291
89. Helena & Frisco Mining Co., Wallace. Lead carbonates. 291
90. Hilderbrand, Gus, Rapid River. Gold and silver ores. 291
91. Hill, George P., Bellevue. Galena. 291
92. Hindman, Major, Ketchum. Sulphurets and galena. 291
93. Hunt & Hughes, Gibbonsville. Pyrites. 291
94. Idaho & Pittsburg Mining & Milling Co., Silver City. Sulphides, quartz and spar. 291
95. Ireton, William, Sweet. Gold quartz. 291
96. Irwin, Isaac, Falls. Gold and silver ores. 291
97. Jones, C., Idaho City. Silver quartz. 291
98. Kingsley, Fred, Hailey. Galena and gold ore. 291
99. Kleufer, Emil, Ketchum. Galena. 291
100. Knight, W. S., Placerville. Gold quartz. 291
101. Leach, F. M., Silver City. Arsenical iron. 291
102. Lemon, Frank, Hailey. Galena and gold quartz. 291
103. Lemp, John, Boise City. Galena. 291
104. Leonard, Robert, Sr., Silver City. Gold quartz and native silver. 291
105. Lewis, H. F., Boise City. Gold quartz. 291
106. Lewis, I. I., Ketchum. Galena and gold ores; pyrites; sulphurets. 291
107. Lewis & Nichols, Silver City. Gold quartz. 291
108. Livingston Bros., Bay Horse. Ore from Livingston mine. 291
109. Livingston Mine, Clayton. Mineralized wood. 291

UNITED STATES.

110. Locke, E., Bellevue. Galena. 291
111. Lonigan, J., Silver City. Silver ore. 291
112. Lucky Boy Mining & Milling Co., Custer City. Ores from Last Chance mine. 291
113. Lusk, I., Bellevue. Quartz and galena. 291
114. Madden, John, Hailey. Gold. 291
115. Mahoney, Ben, Albion. Ores. 291
116. Mammoth Mining Company, Wallace. Lead carbonates. 291
117. Maxey, W. C., Caldwell. Blue quartz. 291
118. McCleary, Robert, Ketchum. Galena. 291
119. McFadden, Jas. A., Custer City. Gold and silver ores and copper glance. 291
120. McFarland, Mahoney, Hailey. Galena. 291
121. McFarland, Wm., Hailey. Galena. 291
122. McMonigle, Pat, Hailey. Galena. 291
123. Mefert, C. C., Centerville. Petrified pitch knot. 291
124. Miller, H. E., Bellevue. Galena and heavy spar. 291
125. Milwaukee Mining Company, Wallace. Lead carbonates. 291
126. Minnesota Mine, Silver City. Gold quartz. 291
127. Morgan, J. T., Boise City. Galena. 291
128. Morler, Chris., & Co., Challis. Galena, gold and silver ores, etc. 291
129. Morning Mining Company, Wallace. Lead ore. 291
130. Morrison & Pearson, Bonanza. Silver-gold ore. 291
131. Montana Mining Company, Bonanza. Gold ore. 291
132. Narrow Gauge Mining Company, Hailey. Galena and lead carbonates. 291
133. Niles, P. M., Albion. Ore. 291
134. Norcross, C. O., Sweet. Gold and silver ores; rose quartz. 291
135. Oakes, H., Centerville. Gold quartz; sulphurets. 291
136. O'Connell, Daniel, Bonanza. Gold quartz. 291
137. Ophir Mining & Milling Co., Ketchum. Galena. 291
138. Orifino Mining & Milling Co., Silver City. Gold quartz. 291
139. Osterhout, John, Albion. Galena. 291
140. Parfet, John M., Salmon City. Gold, silver and lead ores; galena; mineralized wood. 291
141. Patterson, J. S., Ellis. Gold, silver, copper and iron ores. 291
142. Pearce, L. B., Albion. Lead ore. 291
143. Pettingill, J. C., Albion. Gold and lead ores. 291
144. Pettingill & Osterhout, Albion. Galena. 291
145. Phillips, Fred., Challis. Gold, silver and lead ores, etc. 291
146. Phillips & Sullivan, Silver City. Tal-cose quartz. 291
147. Plowman, K. P., Boise City. Gold quartz. 291
148. Poncia & Oakes, Centerville. Quartz and galena. 291
149. Porter, Orin, Hailey. Galena. 291
150. Powell, Charles, Challis. Silver, lead and zinc ores. 291
151. Raine, Charles, Custer City. Gold ore from Pilgrim mine. 291
152. Ralston, Jack, Shoup. Gold quartz; sulphurets and oxides; milling ore. 291
153. Ramshorn Mining & Milling Co., Bay Horse. Silver and iron ores; galena; arsenite. 291
154. Ramshorn Mining & Smelting Co., Bay Horse. Carbonate of iron ore and arsenites. 291
155. Rebolt, George, Warrens. Gold and silver ores. 291
156. Red Cloud Mining Company, Hailey. Galena. 291
157. Red Elephant Mining Company, Hailey. Galena ores. 291
158. Reinhardt & Melick, Bellevue. Galena. 291
159. Rhoads, William, Caldwell. Galena. 291
160. Roberts, A. B., Albion. Ore. 291
161. Roberts & Normington, Bellevue. Lead-silver ore. 291
162. Robinson, E., Hailey. Lead carbonates. 291
163. Robinson & Beatty, Hailey. Iron pyrites and galena. 291
164. Schlosser, H. H., Centerville. Gold quartz. 291
165. Schultz, W. C., Gray. Gold ore; free quartz. 291
166. Sherai, M., Hope. Silver ore. 291
167. Shoup, George L., & Co., Salmon City. Gold and silver ores; galena, etc. 291
168. Sierra Nevada Mining Company, Wallace. Lead carbonates. 291
169. Simpson, B. F., Banner. Gold quartz. 291
170. Smiley, J., Houston. Brittle silver. 291
171. Snively, J. C., Centerville. Gold quartz. 291
172. Snyder & Hardy, Spokane, Wash. Lead ore from Alta mine. 291
173. Southand, H., Ogden. Galena. 291
174. Star Mining Company, Hailey. Galena. 291
175. State of Idaho. Iron pyrites from Idaho Penitentiary well; sapphires from Stanley Basin; wall rock from Estes Mountain; milling ores from Sea Foam District; ore samples from Wallace, Seven Devils and Valley Creek; quartz crystals from Bonanza; cinnabar from Loon Creek; honey comb quartz from Bolton Hot Springs; gold and silver ores and petrifactions from Deer Trail Creek; black lime from Alturas; ruby sand from Jim Hays Placer; gold ores from vicinity of Nellie Mine; floating rock from Market Lake; prospects from gold belt west of Bellevue; ornamental stones from Willow Creek; wall rock from Belshazzar; quartz crystals and pebbles from Deadwood; petrifactions from Challis; mastodon tooth from Blackfoot; mammoth tooth from Bear River; amethysts from Centerville placers; sulphurets and ores from Kootenai County. 291

DEPARTMENT E.—MINES, MINING AND METALLURGY

176. Stokes, William, Albion. Sulphurets. 291
177. Strathen, William, Bay Horse. Arsenites. 291
178. Sullivan, I. N., Hailey. Lead ore. 291
179. Sullivan & Co., Hailey. Lead-silver ore. 291
180. Suydam, Eli, Salmon City. Gold and iron quartz. 291
181. Swanson & Warren, Ketchum. Lead-silver ore and galena. 291
182. Swift, J. O., Hailey. Gold quartz and galena. 291
183. Taylor, Frank, Hailey. Galenas. 291
184. Taylor, Mr., New York. Galena from Naiog mine. 291
185. Thompson, J. S., Bellevue. Iron pyrites. 291
186. Thompson & Howe, Challis. Gold ore and lead quartz. 291
187. Tiger Mining Company, Wallace. Tiger ore. 291
188. Tobes & Henderson, Hope. Silver ore. 291
189. Tolmie, Mr., DeLamar. Oxides of iron. 291
190. Valley View Mine. Galena. 291
191. Vance, Clay, Houston. Gold quartz; silver sulphurets; antimonial ore. 291
192. Vigus, Samuel, Custer City. Silver-lead galena; gold quartz. 291
193. Wardrop, William, DeLamar. Talc ores; gold nugget; talcose. 291
194. Washington County. Black sand; garnets; block galena. 291
195. Washington Mine, Bonanza. Wire gold; wall rock; pyrites; crystal. 291
196. Waters, J. S., Challis. Silver and lead ores. 291
197. Waters & Joyce, Challis. Gold, silver, lead and zinc ores; arsenites. 291
198. Watt, W. H., Hailey. Galena. 291
199. Watts, J. G., Idaho City. Gold nuggets; flour gold from Iowa mine. 291
200. Watts, Mrs. J. G., Idaho City. Idaho minerals. 290
201. Wayne, Charles, Bonanza. Badger ore. 291
202. Weber, F., Hope. Silver ore. 291
203. Wentz, George, Salmon City. Gold and iron ores. 291
204. Western Reserve Mining Company, Hailey. Galena. 291
205. White, E. A., Hailey. Pyrites. 291
206. Whitmer, Dave, Bellevue. Galena. 291
207. Whitmore, George, Shoup. Gold and iron quartz. 291
208. Whitney, H. H., Centerville. Quartz, and porphyry with gold. 291
209. Williams, Crossin & McKay, Idaho City. Sulphurets with gold. 291
210. Williams, E. B., Ketchum. Galena. 291
211. Winters, General, Erie. Sulphurets. 291
212. Wise, J. H., Albion. Galena from Dominion group. 291
213. Wright, D. S., Lemhi Agency. Gold, silver and iron ores. 291
214. Young, L., Bellevue. Galena. 291
- GROUP 43.**
215. State of Idaho. Coal from Weiser River. 292
- GROUP 44.**
216. Allen, Levi, Salubria. Granite. 296
217. Canon & Gray, Hope. Marble. 296
218. Hield, C. K., Albion. Building stone. 296
219. Parfet, John M., Salmon City. Jasper. 296
220. Park, Ira C., Albion. Alabaster. 296
221. Roberts, A. B., Albion. Marble and granite. 296
222. State of Idaho. Building stone from Bellevue and Caldwell; granite from Seven Devils; marble from Ruthburg. 296
223. Tonk, Henry, Bonner's Ferry. Granite. 296
- GROUP 45.**
224. State of Idaho. Steatite from Sanburn; and olivine from Rathdrum. 297
225. Washington County. Pumicestone. 297
- GROUP 46.**
226. Gallicher, John, Albion. Mica. 305
227. Johnson, Frank, Hope. Clay and products. 304
228. Latah County. Mica. 305
229. Pearce, Captain, Hope. Clay. 304
230. Roberts, L., & J., Taylor. Pottery made from Lewisville clays. 304
231. State of Idaho. Bricks made from Sanburn clays. 304
- GROUP 47.**
232. Allen, Levi, Salubria. Lime. 309
233. State of Idaho. Asphaltum from Sucker Creek; pitch stone from Squaw Butte. 312
- GROUP 48.**
234. Tanner, James, Albion. Alum. 316
235. Weatherman, S. P., Albion. Red lead; yellow ochre. 319
- GROUP 49.**
236. Black Star Mine. Iron fluxes. 322
237. Frenchy, J., Hailey. Iron fluxes. 322
- GROUP 51.**
238. Allen, Frank M., Gibbonsville. Copper and sulphuret ores. 340
239. Allen, Levi, Salubria. Copper ores. 340
240. Ambrose & Russell, Salmon City. Copper ores; copper quartz, etc. 340
241. American Mining Company, Helena. Copper ore. 340
242. Barton, Edward, Weiser. Copper. 340
243. Berry, R. W., Hailey. Copper ore. 340
244. Boxwell, Frank, Salmon City. Copper ores. 340
245. Clayton & Omaha Mining and Smelting Co., Clayton. Copper ore. 340
246. Edwards, A. C., Spokane, Wash. Copper ores. 340
247. Ford, Allie, Lemhi Agency. Copper and silver-copper ores. 340
248. Gilmore's Estate & Chamber's, Shoup. Sulphurets of copper. 340

UNITED STATES.

249. Idaho Copper Company, Houston. Copper ores. 340	268. Tin Cup Mining Company, Wallace. Gray copper. 340
250. Knickerbocker Mining Company, Wallace. Gray copper. 340	269. Thompson & Howe, Challis. Silver-copper ores. 340
251. Livingston Bros., Wallace. Copper sulphurets. 340	270. Tyler, Frank, Houston. Copper ore. 340
252. McCarthy, J. J., Bonanza. Copper ores. 340	271. Van Noy, A., Camas. Copper ore. 340
253. Mineral Point Mining Company, Wallace. Gray copper. 340	272. Van Noy & Co., Camas. Copper ore. 340
254. Mix, C. E., Baker City, Oregon. Copper ore. 340	273. Walker, C. E., Seven Devils. Copper. 340
255. Nellie Mining Company, Wallace. Gray copper. 340	274. Wright, D. S., Lemhi Agency. Copper ores. 340
256. Norcross, C. O., Sweet. Oxides of copper. 340	
257. Parfet, John M., Salmon City. Copper ores; quartz and crystals. 340	GROUP 52.
258. Patterson, J. S., Ellis. Copper ores. 340	275. Case & Schermerhorn, Boise City. Tin ore. 344
259. Pearce, L. B., Albion. Copper pyrites and lead ore. 340	276. Hathaway, F. M., Silver City. Tin ores. 344
260. Phillips, Fred., Challis. Copper ores; pyrites; silver-copper, etc. 340	277. Hathaway, H. M., Silver City. Tin ore. 344
261. Ramshorn Mining & Smelting Co., Bay Horse. Copper ores, etc. 340	278. Pearce & Brown, Albion. Tin ore. 344
262. Ramshorn Mining & Milling Co., Bay Horse. Gray copper ore. 340	
263. Sharp & Pearce, Challis. Copper and copper-silver ores. 340	GROUP 54.
264. Shoup, Geo. L., & Co., Salmon City. Copper quartz. 340	279. Barclay, J. C., Gibbonsville. Palladium. 357
265. State of Idaho. Copper from Clayton and ore from Golden Eagle. 340	280. Morler, Chris., & Co., Challis. Antimony. 356
266. Statham & Jaquish. Bay Horse. Copper ore. 340	
267. Taylor & Smith, Boston. Copper ores. 340	GROUP 55.
	281. De Lamar Mine, De Lamar. Concentrates; bar silver bullion. 363
	GROUP 67.
	282. Nabob Mine, Galena. Photograph of rock. 410

INDIANA.

GROUP 43.

1. Brazil Block Coal Co., Brazil. Coal.	292
2. Coal Bluff Mining Co., Terre Haute. Coal.	292
3. Crawford Coal Co., Brazil. Coal.	292
4. Currysville Coal Co., Shelburn. Coal.	292
5. Eureka Block Coal Co., Terre Haute. Coal.	292
6. Folley, James P., Coal Bluff. Coal.	292
7. Island City Coal Co., Linton. Coal.	292
8. Little, S. W., Evansville. Coal.	292
9. Martin, Joseph, Rosedale. Coal.	292
10. Mutual Mining Co., Cannelburg. Coal.	292
11. New Pittsburg Coal Co., Chicago. Coal.	292
12. Otter Creek Coal Co., Brazil. Coal.	292
13. Otter Creek Mining Co., Coal Bluff. Coal.	292
14. Otter Creek Mining Co., Foley's. Coal.	292
15. Paulin, Frank S., Cannelton. Coal.	292

DEPARTMENT E.—MINES, MINING AND METALLURGY.

- | | |
|--|--|
| 31. Defenbaugh, Geo. W., Kokomo. Marble. 296 | 47. Trippeer, Chas., Peru. Stone. 296 |
| 32. Greensburg Limestone Co., Greensburg. Limestone. 296 | 48. Whitset & Adams, St. Paul. Stone. 296 |
| 33. Haman Bros., Vernon. Limestone. 296 | 49. Winstanley, W. C., Bedford. Stone column. 296 |
| 34. Harris, B. B., Greensburg. Limestone. 296 | |
| 35. Hunter Stone Co., Bloomington. Limestone. 296 | |
| 36. Lee, Joseph, Terre Haute. Limestone. 296 | |
| 37. Moellering, William, Fort Wayne. Limestone. 296 | |
| 38. Peerless Stone Co., Bedford. Stone. 296 | |
| 39. Perry Brothers, Ellettsville. Stone column. 296 | |
| 40. Perry, Matthews & Buskirk, Bedford. Stone. 296 | |
| 41. Salem Bedford Stone Co., Louisville, Ky. One stone column, one square stone. 296 | |
| 42. Salem & Bedford Stone Co., Salem. Limestone. 296 | |
| 43. Shrum, John L., Crawfordsville. Stone. 296 | |
| 44. Scanlan, J. L., St. Paul. Stone. 296 | |
| 45. Springer, John A., Clydell. Stone. 296 | |
| 46. The Indiana Oolitic Limestone Co., Stinesville. Stone. 296 | |
| | GROUP 46. |
| | 50. Brazil Fire and Paving Brick Co., Brazil. Clay products. 304 |
| | 51. Chicago Sewer Pipe Co., Brazil. Clay products. 304 |
| | 52. Columbia Encaustic Tile Works, Anderson. Clay products. 304 |
| | 53. Dickenson, F. E., Walcottville. Pressed brick. 304 |
| | 54. Gilman, Weaver, Brazil. Pottery. 304 |
| | 55. Hobbs Pottery, Bloomington. Clay products. 304 |
| | 56. Hydraulic Pressed Brick Co., Porter. Clay products. 304 |
| | 57. Pendergast, J. G., Hillsdale. Fireproofing. 304 |
| | 58. Tiffany Pressed Brick Co., Momence. Clay products. 304 |
| | 59. Uhl, Mr., Evansville. Pottery. 304 |
| | 60. United States Encaustic Tile Works, Indianapolis. Clay products. 304 |
| | 61. Wabash Clay Co., Veedersburg. Street paving brick. 304 |

IOWA.

GROUP 42.

1. Dubuque World's Fair Association, Dubuque. Lead ore. 291
2. Lansing Mining and Smelting Co., Lansing. Lead ore, lead from lower magnesian limestone. 291
3. Waukon World's Fair Association, Waukon. Iron ore. 291

GROUP 43.

4. Centerville Mine Association, Centerville. Bituminous coal. 292
5. Diamond Coal Co., Centerville. Coke. 292
6. Phillips Fuel Co., Ottumwa. Steam coal. 292
7. Raven Coal Co., Mystic. Domestic coal. 292

GROUP 44.

8. Adams County Association, Corning. Marble. 296
9. Bishop & Treat, Charles City. Marble. 296
10. Cedar Valley Quarry Co., Cedar Valley. Bridge stone. 296
11. Chamberlain, W. H., Independence. Granite. 296
12. Crowley, Edward, Iowa City. Mottled stone. 296
13. Fairchild, H. W., Iowa City. Coral. 296
14. Green, J. A., Stone City. Structural limestone. 296
15. Hutchinson, Frank, Iowa City. Building stone. 296

16. Irish, Gill R., Iowa City. Limestone. 296
17. LeGrand Quarry Co., Marshalltown. Building stone. 296
18. Polk, Jefferson S., Des Moines. Red sandstone. 296
19. State Quarry, Iowa City. Building stone. 296
20. Waukon Association, Waukon. Limestone, marble and sandstone. 296
21. Williams, Wilkes, Postville. Building stone. 296

GROUP 46.

22. Barnard, Charles, Waukon. Ornamental sand. 304
23. Buhlman, G. H., Clayton. Silica. 304
24. Carter, Charles, Marengo. Brick. 304
25. Centerville Association, Centerville. Fire clay. 304
26. Clemens, Andrew, McGregor. Ornamental sand. 304
27. Clermont Brick and Tile Co., Clermont. Brick and tile. 304
28. Close, W. H., Red Oak. Pottery. 304
29. Crooked Creek Railroad Coal Co., Lehigh. Silica. 304
30. Fairchild, H. W., Iowa City.
 - a Building and fire sand. 304
 - b Fire stone. 305
31. Faus, T. W., Cherokee. Artificial stone. 304
32. Granite Brick Co., Burlington. Vitrified brick. 304
33. Holman, C. J., & Bro., Sergeant's Bluff. Clay and pottery. 304

UNITED STATES.

- | | | | |
|--|-----|--|-----|
| 34. Indianola Brick & Tile Co., Indianola.
Brick and tile. | 304 | 47. Waukon Association, Waukon.
Brick, tile, clay. | 304 |
| 35. Iowa City Association, Iowa City.
Clay and brick. | 304 | 48. Waukon World's Fair Association,
Waukon. Sands. | 304 |
| 36. Johnson Co., Iowa City. Silica. | 304 | | |
| 37. Keokuk Brick and Tile Co., Keokuk.
Vitrified brick. | 304 | | |
| 38. Kettle, William, Tipton. Tile. | 304 | | |
| 39. Moir, M. W., Eldora. Clays and ex-
amples, fire sand, silica. | 304 | | |
| 40. Montpelier Tile Works, Montpelier.
Tile and brick. | 304 | | |
| 41. Muscatine Pressed Brick Co., Musca-
tine. Brick and clay. | 304 | | |
| 42. Muscatine Terra Cotta Co., Musca-
tine. Brick. | 304 | | |
| 43. Ottumwa Brick Co., Ottumwa. Brick. | 304 | | |
| 44. Pella Drain Tile Co., Pella. Tile. | 304 | | |
| 45. Shattuck, A. L., What Cheer. Fire
clay. | 304 | | |
| 46. Stone, W. B., Webster City. Arti-
ficial stone. | 304 | | |

GROUP 47.

- | | |
|--|-----|
| 49. Fairchild, H. W., Iowa City. Gravels. | 311 |
| 50. Hurst, A., Maquoketa. Lime. | 309 |
| 51. Iowa City Association, Iowa City.
Lime. | 309 |
| 52. Iowa Plaster Association, Fort Dodge.
Gypsum. | 313 |
| 53. Moir, M. W., Eldora. Limestone. | |
| 54. Steele, William A., Des Moines. Lime-
stone. | |

GROUP 48.

- | | |
|---|-----|
| 55. Waukon World's Fair Association,
Waukon. Iron oxides and examples. | 319 |
| 56. Wilkinson, L. A., Des Moines. Iron
oxides and examples. | 319 |

KENTUCKY.

GROUP 42.

- | | |
|--|-----|
| 1. Ashland Improvement Company, Ash-
land. Limestone ore. | 291 |
| 2. Bath County. Limonite from Pergam
Bank and Clear Creek; ores from Block
House and Hound Hill. | 291 |
| 3. Buel, D. C., Paradise. Limonite. | 291 |
| 4. Centre Furnace, Lyon County. Limo-
nite. | 291 |
| 5. Estill Furnace, Estill County. Limo-
nite. | 291 |
| 6. Grand Rivers Furnace Company,
Grand Rivers. Limonite. | 291 |
| 7. Lexington & Carter County Coal Co.,
Mt. Savage. Kidney ore. | 291 |
| 8. Means & Russell Iron Co., Ashland.
Limestone ore. | 291 |
| 9. Menifee County. Limonite from Bea-
ver Creek. | 291 |
| 10. Slate Creek Iron Company, Olympia.
Limonite. | 291 |
| 11. State of Kentucky. Limonite from
Middlesborough, Bee Spring, Reedyville
and Greenville. | 291 |
| 12. Trigg Furnace Company, Trigg. Limo-
nite. | 291 |

GROUP 43.

- | | |
|---|-----|
| 13. Aberdeen Coal Company, Morgantown.
Bituminous coal. | 292 |
| 14. Ashland Coal & Iron Co., Ashland.
Bituminous coal; coke. | 292 |
| 15. Ashland Improvement Company, Ash-
land. Bituminous coal. | 292 |
| 16. Barren Fork Coal Company, Flat
Rock. Bituminous coal. | 292 |
| 17. Baskett Coal Company, Baskett. Bi-
tuminous coal. | 292 |
| 18. Beattyville Coal Company, Beattyville.
Cannel coal. | 292 |
| 19. Breckenridge Cannel Coal Company,
Cloverport. Cannel coal. | 292 |

- | | |
|--|-----|
| 20. Breckenridge & Pineville Syndicate,
Pineville. Bituminous and cannel coals;
coke. | 292 |
| 21. Broas, R. M., Ashland. Coking coal;
coke. | 292 |
| 22. Bryant, L. E., Harriman. Bitumin-
ous coal from Pulaski County. | 292 |
| 23. Central City Coal & Iron Co., Central
City. Bituminous coal; coke. | 292 |
| 24. Cumberland Coal Company, Commer-
cial Point. Bituminous coal. | 292 |
| 25. Deaneffield Coal Company, Owensboro.
Bituminous coal. | 292 |
| 26. Edmonson County Coal, Iron & Lum-
ber Co., Bowling Green. Bituminous coal. | 292 |
| 27. Empire Coal & Mining Co., Empire.
Bituminous coal. | 292 |
| 28. Goff, John H., Indian Fields. Bitumin-
ous coal. | 292 |
| 29. Halsey, E. T., Louisville. Birdeye
and birdeye cannel coal. | 292 |
| 30. Happy Hollow Coal Company, Happy
Hollow. Bituminous coal. | 292 |
| 31. Hecla Coal & Mining Co., Earlington.
Bituminous coal. | 292 |
| 32. Hendrick, W. J., Beaver Creek. Bitu-
minous coal. | 292 |
| 33. Hutchcraft, B., Halsey. Cannel coal. | 292 |
| 34. Kentucky Union Land Company,
Breathitt County. Bituminous and cannel
coals; coke. | 292 |
| 35. Letcher County Bituminous Coal Com-
pany, Washington, D. C. Bituminous and
cannel coals. | 292 |
| 36. Lexington & Carter County Coal Com-
pany, Mt. Savage. Bituminous and can-
nel coals; coke. | 292 |
| 37. Lilly Coal Company, Louisville. Bi-
tuminous coal; coke. | 292 |

DEPARTMENT E.—MINES, MINING AND METALLURGY.

- | | |
|--|---|
| <p>38. Log Mountain Coal & Coke Co., Pineville. Bituminous and cannel coals; coke. 292</p> <p>39. Lyon, F. A., Beattyville. Cannel coal. 292</p> <p>40. Madisonville Coal Company, Madisonville. Bituminous coal. 292</p> <p>41. Maysville Cannel Coal Company, Maysville. Cannel coal. 292</p> <p>42. Memphis Coal & Mining Co., Beyier. Bituminous coal; coke. 292</p> <p>43. Mingo Mountain Coal & Coke Co., Middlesborough. Bituminous coal; coke. 292</p> <p>44. Monarch Coal & Coke Co., Knoxville. Bituminous coal. 292</p> <p>45. Morgan County Cannel Coal Company, Frankfort. Cannel coal. 292</p> <p>46. Mud River Coal & Iron Co., Mud River. Bituminous coal. 292</p> <p>47. Norman, L. C., Frankfort. Bituminous coal. 292</p> <p>48. North Jellico Coal Company, Gray's. Bituminous coal. 292</p> <p>49. Ohio Valley Coal & Mining Co., De Koven. Bituminous coal. 292</p> <p>50. Providence Mining Company, Providence. Bituminous coal. 292</p> <p>51. Ringo, Willis, Ashland. Coke. 292</p> <p>52. St. Bernard Coal Company, Earlington. Bituminous coal; coke. 292</p> <p>53. Sturgis Coal Company, Sturgis. Bituminous coal. 292</p> <p>54. Smith, C. E., Richmond. Bituminous and cannel coal. 292</p> <p>55. West Liberty Cannel Coal Company, Mt. Sterling. Cannel coal. 292</p> <p>56. White House Cannel Coal Company, Louisa. Cannel coal. 292</p> <p>57. Worrall Mountain Coal Company, Haynesville. Bituminous coal. 292</p> | <p>61. Ashland Fire Brick Company, Ashland. Fire clay. 304</p> <p>62. Ashland Improvement Company, Ashland. Fire clay. 304</p> <p>63. Ballard County. Refractory clay from Cane Creek and Moore's Mill. 304</p> <p>64. Barradell, F. N., Benton. Micaceous clay. 304</p> <p>65. Callaway County. White clay from Wyatts School House. 304</p> <p>66. Campbell, T. D., Laketon. Fire clay. 304</p> <p>67. Clay, Brutus J., Richmond. Potters' clay. 304</p> <p>68. Clinton Fire Brick Works, Ashland. Fire clay. 304</p> <p>69. Cloverport Brick Manufacturing Company, Cloverport. Vitrified brick clay. 304</p> <p>70. Edmonson Coal, Iron & Lumber Co., Bowling Green. Fire clay. 304</p> <p>71. Fulton County. Clay and clay stone from Hickman. 304</p> <p>72. Grahn, B. K., Louisville. Fire clay. 304</p> <p>73. Gray, A. S., Scale. Plastic clay. 304</p> <p>74. Howard's Pottery, Bell City. Refractory clay. 304</p> <p>75. Jones, W. J., Paducah. Stiff clay. 304</p> <p>76. Kentucky Construction & Improvement Co., Mayfield. Plastic clay. 304</p> <p>77. Mahan, F. H., Murray. Dark clay. 304</p> <p>78. McDonald Bros., Louisville. Vitrified clay. 304</p> <p>79. Mims, Rufus, New Providence. Pipe clay. 304</p> <p>80. Munier's, Paducah. Blue clay. 304</p> <p>81. Pittman's Pottery, Lynnville. Plastic clay. 304</p> <p>82. Pugh, J. T., Palma. Micaceous clay. 304</p> <p>83. Ryan, George, Milburn. Plastic clay. 304</p> <p>84. State of Kentucky. Refractory fire clay from Columbus and Fort Jefferson. 304</p> <p>85. Triplett, R. S., Owensboro. Fire clay. 304</p> |
|--|---|
- GROUP 46.**
- | | |
|---|---|
| <p>58. Acme Vitrified Brick Company, Louisville. Vitrified brick-clay. 304</p> <p>59. Arnett, William P., Mayfield. Plastic clay. 304</p> <p>60. Ashland Coal & Iron Railway Co., Ashland. Fire clay. 304</p> | <p>86. Smallhouse, C. G., Bowling Green. Marl. 320</p> <p>87. Stone, John E., Litchfield. Marl. 320</p> |
|---|---|

LOUISIANA.

GROUP 42.

1. State of Louisiana. Iron pyrites, black oxides, gold and silver quartz, zinc ore and chalk. 291

GROUP 43.

2. State of Louisiana.
- | | |
|--------------|-----|
| a Lignite. | 292 |
| b Petroleum. | 294 |

GROUP 44.

3. State of Louisiana. Building stone, sandstone, gneiss, conglomerate and marbles. 296

GROUP 45.

4. State of Louisiana. Grindstones and whetstones. 297

GROUP 46.

5. State of Louisiana.
- | | |
|---------------------|-----|
| a Clays and kaolin. | 304 |
| b Mica. | 305 |
| c Bauxite clay. | 306 |
| d Meerschau. | 308 |

GROUP 47.

6. State of Louisiana. Limestone and cement rock. 309

GROUP 48.

7. State of Louisiana.
- | | |
|----------------------------------|-----|
| a Table, coarse and rock salt. | 314 |
| b Soda, potash and kainite. | 316 |
| c Sulphur. | 317 |
| d Green sand and indurated marl. | 320 |
| e Mineral waters. | 321 |

MAINE.

GROUP 42.

1. Andrews, C. G., South Paris. Minerals. 291
2. Bayley, W. S., Waterville. Minerals. 291
3. Bailey, E. M., Andover. Minerals. 291
4. Colby University, Waterville. Minerals. 291
5. Davis, Mrs. E. R., South Paris. Minerals and gems. 291
6. Goodall, T., Sanford. Minerals. 291
7. Lee, L. A., Brunswick. Minerals. 291
8. Lamb, T. F., Portland. Minerals and gems. 291

9. Maling, H. B., Portland. Minerals. 291
10. Manning, P. C., Portland. Minerals. 291
11. Merrill, L. B., South Paris. Minerals and gems. 291
12. Noyes, H. W., Portland. Minerals. 291
13. Portland Society of Natural History, Portland. Minerals. 291
14. Robinson, C. F., Brunswick. Mineral. 291

MASSACHUSETTS.

GROUP 42.

1. Amherst College, Amherst. Collection of ores and gems in the rough. 291
2. Angell, C. L., Huntington. Collection of ores and gems in the rough. 291
3. Brigham, George L., Bolton. Collection of ores and gems in the rough, fossils. 291
4. Bryant, Miss A. A., Mansfield. Auriferous iron pyrites. 291
5. Boston Society of Natural History, Bridgewater. Calamite. 291
6. Clark, Daniel, Tyngham. Collection of ores and gems in the rough. 291
7. Conant, Dr. Thomas, Gloucester. Micaceous ilmenite, limonite, crystals, amazonstone, orthoclase. 291
8. Cotting, J. J., Fitchburg. Hornblende, muscovite. 291
9. Cowles, E. L., Chester. Ilmenite, crystal quartz, garnet, zoisite. 291
10. Davis, E. G., Leominster. Collection of ores and gems in the rough. 291
11. Davis Sulphur Ore Co., Davis. Iron pyrites, fossils. 291
12. Emerson, Chas. B., Bradford. Galena with chalcopryrite. 291
13. Fletcher, Miss Emily, Westford. Collection of minerals and gems. 291
14. Gardner, John L., Boston. Prehnite. 291
15. Hobbs, Dr. W. H., Madison, Wis. Collection of ores and gems in the rough. 291
16. Howard University, Cambridge. Collection of fossils. 291
17. Johnson, Charles, Easthampton. Collection of ores and gems in the rough. 291
18. Kennedy, Harris, Roxbury. Micaceous hematite, rhodonite, prehnite. 291
19. Litchfield, Silas, Fitchburg. Beryl, tourmaline. 291
20. Lucas, Dr. H. S., Chester. Magnetite, diaspore, corundophilite. 291

21. Macia, Elis, Chester. Collection of ores and gems in the rough. 291
22. Osgood, Alfred, Newburyport. Galena with chalcopryrite. 291
23. Peabody Academy of Science, Salem. Collection of ores and gems in the rough. 291
24. Richmond Iron Works, Richmond. Limonite. 291
25. Rockport Granite Co., Rockport. Molybdenite, amazonstone, smoky quartz. 291
26. Sands, H. H., New York City. Collection of ores and gems in the rough. 291
27. State of Massachusetts. Collection of ores and gems in the rough. 291
28. Stearns, Charles A., Boston. Collection of ores and gems in the rough. 291
29. Stevens, A. L., Mansfield, N. H. Barite. 291
30. Stockbridge Iron Co., West Stockbridge. Limonite. 291
31. Stoughton, T. M., Turner's Falls. Fossils. 291
32. Tarr, R. S., Gloucester. Molybdenite, opal, amethyst, orthoclase, amazonstone. 291
33. Thatcher, A. R., Haydensville. Collection of ores and gems in the rough. 291
34. Weeks, H. A., Chesterfield. Collection of ores and gems in the rough. 291
35. Whittle, C. L., Cambridge. Collection of ores and gems in the rough. 291
36. Woodworth, J. B., Cambridge. Melanolate. 291
37. Worcester Polytechnic Institute, Worcester. Collections of ores and associated minerals. 291

GROUP 43.

38. Woodworth, J. B., Cambridge. Anthracite coal. 292

GROUP 44.

39. Amherst College, Amherst. Schist. 296
40. Badger Bros., Quincy. Granite. 296

DEPARTMENT E.—MINES, MINING AND METALLURGY.

- | | |
|--|---|
| <p>41. Beattie, Wm., & Sons, Fall River. Granite. 296</p> <p>42. Blanchard, W. D., Leominster. Granite. 296</p> <p>43. Cape Ann Granite Co., Bay View. Granite. 296</p> <p>44. Darling Bros., Milford. Granite. 296</p> <p>45. Fletcher Bros., Chelmsford. Granite. 296</p> <p>46. Flyant Granite Co., Monson. Granite. 296</p> <p>47. Granite Manufacturers' Ass'n, Quincy. Granite. 296</p> <p>48. Gross Bros., Lee. Marble. 296</p> <p>49. Hathaway, Prof. F. R., Winchendon. Granite and schist. 296</p> <p>50. Hobbs, Dr. W. H., Madison, Wis. Gneiss, schist marble, quartzite, limestone and shale. 296</p> <p>51. Hudson & Chester Granite Co., Chester. Granite. 296</p> <p>52. Kane & Leary, Fitchburg. Granite. 296</p> <p>53. Kittredge & Leavitt Granite Co., Leominster. Gneiss, granite. 296</p> <p>54. Lanesville Granite Co., Lanesville. Granite. 296</p> <p>55. Merrill, J. A., Cambridge. Gneiss and slate. 296</p> <p>56. Middlesex Marble Co., Boston. Marble. 296</p> <p>57. McCauliff, J., Fitchburg. Granite. 296</p> <p>58. Milford Pink Granite Co., Milford. Granite. 296</p> <p>59. Munson, J. C., Van Deusenville. Marble. 296</p> <p>60. Norcross Bros., Worcester. Granite and sandstone. 296</p> <p>61. Peabody Academy of Science, Salem. Granite, syenite, felsite breccia and hornblend. 296</p> <p>62. Pumpelly, R., New Marlborough. Conglomerate gneiss. 296</p> <p>63. Rand & Co., North Adams. Marble. 296</p> <p>64. Rockport Granite Co., Rockport. Granite. 296</p> <p>65. State of Massachusetts. Granite, augite, syenite, felsite, breccia, porphyries, gneiss, marble, serpentine, soapstone, conglomerate, schist, limestone; sandstone, etc. 296</p> | <p>66. Truesdell & Fuarey, West Stockbridge. Marble. 296</p> <p>67. Whittle, C. L., Cambridge. Slate. 296</p> |
|--|---|
- GROUP 45.**
- | |
|--|
| <p>68. Amherst College, Amherst. Corundum crystals. 297</p> <p>69. Clark, Daniel, Tyringham. Emery. 297</p> <p>70. Lucas, Dr. H. S., Chester. Margarite with emery and corundum. 297</p> <p>71. Macia, Elis, Chester. Emery, margarite with emery. 297</p> <p>72. State of Massachusetts. Emery. 297</p> <p>73. Weeks, H. A., Chesterfield. Corundum crystals. 297</p> <p>74. Whittle, C. L., Cambridge. Emery and corundum. 297</p> |
|--|
- GROUP 46.**
- | |
|---|
| <p>75. Amherst College, Amherst. Graphite. 298</p> <p>76. Blandford Brick & Tile Co., Boston. Kaolinite. 304</p> <p>77. Clark, Daniel, Tyringham. Kaolinite. 304</p> <p>78. Davis, E. G., Leominster. Graphite. 298</p> <p>79. Hobbs, Dr. W. H., Madison, Wis. Asbestos. 307</p> <p>80. State of Massachusetts.
 <i>a</i> Kaolinite. 304
 <i>b</i> Talc and steatite. 305
 <i>c</i> Asbestos. 307</p> <p>81. Weeks, H. A., Chesterfield. Graphite. 298</p> <p>82. Worcester Polytechnic Institute, Worcester. Graphite. 298</p> |
|---|
- GROUP 51.**
- | |
|---|
| <p>83. Amherst College, Amherst. Copper pyrites in schist. 340</p> <p>84. Clark, Daniel, Tyringham. Copper pyrites. 340</p> <p>85. Davis Sulphur Ore Co., Davis. Copper pyrites. 340</p> <p>86. State of Massachusetts. Copper pyrites. 340</p> |
|---|

MICHIGAN.

GROUP 42.

- | | |
|---|---|
| <p>1. Anvil Iron Mining Company, Gogebic Range. Iron ore. 291</p> <p>2. Aragon Mine, Menominee Range. Iron ore. 291</p> <p>3. Ashland Iron Mining Company, Gogebic Range. Iron ore. 291</p> <p>4. Aurora Iron Mining Company, Gogebic Range. Iron ore. 291</p> <p>5. Blue Mine, Negaunee. Hematite. 291</p> <p>6. Brotherton Mining Company, Gogebic Range. Iron ore. 291</p> <p>7. Buffalo Mine, Negaunee. Hematite. 291</p> <p>8. Cambria Mine, Negaunee. Hematite. 291</p> | <p>9. Champion Mine, Champion. Magnetic ore and hematite. 291</p> <p>10. Chapin Mine, Menominee Range. Iron ore. 291</p> <p>11. Cleveland-Cliffs Iron Company, Ishpeming. Specimens of ores. 291</p> <p>12. Davis Mine, Negaunee. Hematite. 291</p> <p>13. East & West Vulcan Mines, Menominee Range. Iron ore. 291</p> <p>14. Eureka Iron Mining Company, Gogebic Range. Iron ore. 291</p> <p>15. Hamilton Mine, Menominee Range. Iron ore. 291</p> <p>16. Jackson Iron Mining Company, Negaunee. Hematite, hematite jasper. 291</p> |
|---|---|

UNITED STATES.

17. Lake Superior Iron Mining Company, Ishpeming. Hematites, slate ore and auriferous quartz. 291
18. Lillie Mine, Negaunee. Hematite. 291
19. Lowell Iron Mining Company, Gogebic Range. Iron ore. 291
20. Lucy Mine, Negaunee. Hematite. 291
21. Metropolitan Iron Mining Company, Gogebic Range. Iron ore. 291
22. Negaunee Mine, Negaunee. Hematites. 291
23. Newport Iron Mining Company. Gogebic Range. Iron ore. 291
24. Penokey & Gogebic Development Co., Gogebic Range. Iron ore. 291
25. Pewabic Mine, Menominee Range. Iron ore. 291
26. Pittsburg & Lake Angeline Iron Co., Ishpeming. Hematites. 291
27. Prince of Wales Mine, Negaunee. Hematite. 291
28. Queen Mine, Negaunee. Hematite. 291
29. Republic Mine, Republic. Magnetic ore and hematite. 291
30. South Buffalo Mine, Negaunee. Hematite. 291
31. Sunday Lake Mining Company, Gogebic Range. Iron ore. 291
32. Winthrop Mine, Ishpeming. Hematites. 291

GROUP 44.

33. Detroit Brown Stone Company, La Anse. Sandstone. 296
34. Fuerst, New & Co., Portage Entry. Red sandstone. 296
35. Jacobs, J. H., Marquette. Red sandstone. 296
36. McKee, J. C., Grand Rapids. Marble. 296
37. Portage Red Stone Company, Portage Entry. Red sandstone. 296
38. Waverly Stone Company, Holland. Waverly sandstone. 296

GROUP 46.

39. Detroit Graphite Manufacturing Company, Detroit.
 - a Graphite in blocks and powder. 298
 - b Graphite lubricants. 300

GROUP 47.

40. United States Rockfaced Stone Company, Lansing. Artificial building stone. 311

GROUP 48.

41. Michigan Salt Company, Saginaw. Salt. 314
42. Russell, Spencer B., Mt. Clements.
 - a Mineral salts. 316
 - b Mineral water. 321

GROUP 51.

43. Ahmeek Mine, Houghton County. Copper-bearing conglomerate, etc. 340
44. Allouez Mine, Allouez. Copper-bearing conglomerate, etc. 340
45. Arnold Mine, Keweenaw. Native copper. 339
46. Atlantic Mine, Houghton County. Copper-bearing amygdaloid. 340
47. Calumet & Hecla Mine, Lake Linden. Copper-bearing conglomerate. 340

48. Calumet & Hecla Smelting Works, Houghton County. Copper cakes, bars, ingots, cylinders, etc. 342
49. Centennial Mine, Houghton County. Nail copper in amygdaloid. 340
50. Central Mine, Keweenaw.
 - a Copper ore and chips. 340
 - b Battery and tailing samples, dressed mineral. 342
51. Clark Mine, Copper Harbor. Pyrolusite. 340
52. Copper Falls Mine, Keweenaw. Native copper. 339
53. Franklin Mine, Houghton County.
 - a Native copper. 339
 - b Copper-bearing amygdaloid, etc. 340
54. Huron Mills, Houghton County
 - a Copper-bearing amygdaloid. 340
 - b Battery and tailing samples, dressed mineral. 342
55. Kearsage Mine, Houghton County. Copper-bearing amygdaloid, etc. 340
56. Mendota Mine, Lac La Belle. Copper ores. 340
57. National Mine, Ontonagon County. Native copper. 339
58. Osceola Mine, Houghton County.
 - a Copper-bearing amygdaloid, etc. 340
 - b Battery and tailing samples, dressed mineral. 342
59. Peninsula Mine, Houghton County. Conglomerate and associate rocks. 340
60. Quincy Mine, Houghton County.
 - a Copper-bearing amygdaloid and associate rocks. 340
 - b Battery and tailing samples, dressed mineral. 342
61. State of Michigan. Collection of native copper specimens, etc. 339
62. Tamarack Jr. Mine, Houghton County. Ore specimens. 340
63. Tamarack Mine, Houghton County.
 - a Ore specimens, copper boulders, amygdaloid, models and photos. 340
 - b Battery and tailing samples, dressed mineral. 342
64. Tamarack-Osceola Copper Rolling Mill, Houghton County. Sheet copper and wire. 342
65. Wolverine Mine, Houghton County. Copper-bearing amygdaloid, etc. 340

GROUP 61.

66. Central Mine, Keweenaw. Hammers and chisels. 382

GROUP 67.

67. Calumet & Hecla Mine, Lake Linden. Model of mill, photos of underground working and buildings. 410
68. Central Mine, Keweenaw. Map of mine, model of automatic safety skip and hoist. 410
69. Cleveland-Cliffs Iron Company, Ishpeming. Models of Lake Hematite and cliffs, shaft mines and photographs. 410
70. Duluth, South Shore & Atlantic R. R. Co., Marquette. Model of ore dock at Marquette. 410
71. Michigan Mining School. Maps, photographs and drawings. 410

DEPARTMENT E.—MINES, MINING AND METALLURGY.

GROUP 68.

72. Calumet & Hecla Mine, Lake Linden.
Working model of mill, type of 1876.

73. State of Michigan. Chassell and
Sheldon collections of ancient copper
implements.

MINNESOTA.

GROUP 42.

1. Adams Mining Company, Duluth.
Hard and soft iron ore. 291
2. Bessemer Iron Company, Duluth.
Soft iron ore. 291
3. Bewabick Iron Company, Duluth.
Soft iron ore. 291
4. Chandler Iron Company, Ely. Hard
and soft iron ores. 291
5. Franklin Iron Company, Duluth. Soft
iron ore. 291
6. Hale Iron Company, Duluth. Soft
iron ore. 291
7. Iron King Iron Company, Duluth.
Soft iron ore. 291
8. Lake Superior Iron Company, Duluth.
Soft iron ore. 291
9. Lone Jack Iron Company, Duluth.
Soft iron ore. 291
10. Mayhew, T. W., Grand Marais. Col-
lection of agates, etc. 291
11. McKinley Iron Company, Duluth.
Soft iron ore. 291
12. Mesaba Chief Iron Company, Duluth.
Soft iron ore. 291
13. Minnesota Iron Company, Tower.
Hard iron ore. 291
14. Minnewas Iron Company, Duluth.
Soft iron ore. 291
15. Mountain Iron Company, Duluth.
Soft iron ore. 291
16. New England Iron Company, Duluth.
Soft iron ore. 291
17. Ohio Iron Company, Duluth. Soft
iron ore. 291
18. Rouchlean & Ray, Duluth. Soft iron
ore. 291
19. Snively Iron Company, Duluth. Soft
iron ore. 291
20. Standard Ore Company, Duluth. Soft
iron ore. 291
21. Virginia Iron Company, Duluth. Soft
iron ore. 291
22. Wyoming Iron Company, Duluth.
Soft iron ore. 291

23. Zenith Iron Company, Duluth. Soft
iron ore. 291

GROUP 44.

24. Babcock, C. W., & Co., Kasota.
Building stone. 296
25. Cloquet Slate Company, Cloquet.
Slate. 296
26. Lillyblad, G., Red Wing. Building
stone. 296
27. Maybury & Son, Winona. Building
stone. 296
28. Quinby & Omeis, Duluth. Building
stone. 296
29. Rockville Granite Company, Rock-
ville. Granite. 296
30. Sioux Valley Stone Company, Jasper.
Jasper and granite. 296
31. Widell, F., Mankato. Building stone.
296

GROUP 46.

32. Becker, Peter, Belle Plaine. Clay and
brick. 304
33. Daughs & Weist, Blakely. Clay and
brick. 304
34. Goulet, F. X., Staples. Clay and
brick. 304
35. Hess & Moog, St. Cloud. Clay and
brick. 304
36. McKay, J. A., Alexandria. Clay and
brick. 304
37. Ochs, A. C., Springfield. Clay and
brick. 304
38. Pope, Mr., Mora. Terra cotta clay.
304
39. St. Louis River Brick Company, Du-
luth. Brick. 304

GROUP 49.

40. Duluth Furnace Company, W. Duluth.
Pig iron. 324

GROUP 67.

41. Chandler Iron Company, Ely. Work-
ing model of mine. 410

MISSOURI.

GROUP 42.

1. Baby Ruth Mining Co., Aurora. Blende and calamine. 291
2. Ball, T. D., Springfield. Galena with calcite. 291
3. Beard, Thomas, Ironton. Hematite, limonite, magnetite, galena. 291
4. Britts, J. H., Clinton. Fossil coal plants. 291
5. Cobb, Joseph E., Springfield. Blende. 291
6. Commercial Club, Joplin. Galena, blende. 291
7. Corry Mining Co., Corry. Blende. 291
8. Doe Run Lead Co., Doe Run. Galena. 291
9. Empire Zinc Co., Joplin. Crystallized blende on calcite and dolomite. 291
10. Gammon & Henderson, Webb City. Blende with marcasite. 291
11. Granby Mining and Smelting Co., Granby. Galena, cerussite, calamine, calcite. 291
12. Gross, H., Wentworth. Calamine, blende. 291
13. Hatten, Amos, Webb City. Blende. 291
14. Hazard, Rowland, Mine La Motte. Galena, calcite, dolomite, siegenite. 291
15. Hebener, L. M., Fredericktown, Wolfram. Silver ore. 291
16. Hovey, E. O., St. Louis. Specular hematite, fossil coal plants, stalactite. 291
17. Independent Mining Co., Aurora. Calamine, blende, calcite, etc. 291
18. Iron Mountain Co., Iron Mountain. Specular hematite and associated minerals. 291
19. Kansas City Mining Exchange, Kansas City. Galena. 291
20. Kingston, John, Granby. Calamine, galena, calcite, etc. 291
21. Louisville-Aurora Mining Co., Aurora. Calamine. 291
22. McArthur Bros., Potosi. Galena, barite. 291
23. Motley Mining Co., Cartersville. Blende. 291
24. O'Hare, Thomas, Aurora. Blende, calamine, etc. 291
25. Oswego Mining Co., Joplin. Calcite, blende. 291
26. Perry, Napoleon. Blende. 291
27. Randall, R. W., Aurora. Blende, calamine. 291
28. Reeves, J. A., Joplin. Galena, blendes, marcasite. 291
29. Richardson & Taylor, Versailles. Galena. 291
30. Rozier, Louis J., Valle's Mines. Crystallized galena. 291
31. Scarritt School, Kansas City. Fossils. 291
32. Shelton, T. Jefferson, Cartersville. Blende. 291

33. Springfield Mining Bureau, Springfield. Galena. 291
34. State Geological Survey, Jefferson City. Gothite, hematite, calcite, etc. 291
35. St. Joseph Lead Co., Bonne Terre. Galena, calcite, etc. 291
36. St. Louis-Aurora Mining Co., Aurora. Blende, calamine, calcite. 291
37. Terry, Kirk, Cartersville. Blende. 291
38. Van Riper, Aurora. Galena, blende. 291
39. Wampler, W. W., Webb City. Crystallized galena. 291
40. Wampler & Stevison, Webb City. Blende. 291
41. Washington University, St. Louis. Martite, millerite, dolomite, siegenite, pyrite, barite, etc. 291
42. Whalen, P. J., Cherry Valley Bank. Crystals of hematite with quartz. 291
43. Winner, W. E., Kansas City. Fossils. 291
44. Woods, Harry, Co., Aurora. Blende, calcite, etc. 291

GROUP 43.

45. Co-operative Coal Co., Lewis. Bituminous coal. 292
46. Hamilton Coal Co., Hamilton. Bituminous coal. 292
47. Kansas and Texas Coal Co., Excello. Bituminous coal. 292
48. Keith & Perry, Kansas City. Bituminous coal. 292
49. Kresse, A. F., Concordia. Bituminous coal. 292
50. Loomis Coal Co., Bevier. Bituminous coal. 292
51. Miller, W. J., Windsor. Bituminous coal. 292
52. Rich Hill Coal and Mining Co., Rich Hill. Bituminous coal. 292
53. Simpson Coal Co., Versailles. Cannel coal. 292
54. Stover Coal Co., Versailles. Bituminous coal. 292

GROUP 44.

55. Bogy & Jakerst, Ste. Genevieve. Antique marble. 296
56. Bogy, Joseph, Estate of, Ste. Genevieve. Sandstone cubes. 296
57. Bruce, L., Warrensburg. Sandstone cubes. 296
58. Carroll County Sandstone Co., De Witt. Sandstone cubes. 296
59. Carthage Marble and White Lime Co., Carthage. Limestone. 296
60. Douze, Henry, Ste. Genevieve. Limestone cubes. 296
61. Glendale Quarry Co., St. Louis. Limestone cubes. 296
62. Hebener, L. M., Fredericktown. Polished marble. 296

DEPARTMENT E.—MINES, MINING AND METALLURGY.

63. Helms, E. P., Lockwood. Ariston marble. 296
 64. Hinkley Stone Co., South Greenfield. Crystalline limestone and marble. 296
 65. Kent, J., Springfield. Masonic Altar of Greenfield marble. 296
 66. Pickel, J., Quarry Co., Warrensburg. Sandstone cubes. 296
 67. Purdy, J. M., Neosho. Polished Mexican onyx. 296
 68. Richardson, Benjamin, Estate of, Ste. Genevieve. Sandstone cubes. 296
 69. Ritchey Co., Marble Ritchey. Limestone and marble. 296
 70. Springfield Mining Bureau, Springfield. Mexican onyx. 296
 71. State Geological Survey, Jefferson City. Granite, porphyry, onyx. 296
 72. Syenite Granite Co., St. Louis. Granite cubes and dressed granite. 296
 73. Vogt, Emile P., Ste. Genevieve. Red granite, sandstone and oolitic limestone. 296
 74. Wilder, Wm. W., Ste. Genevieve. Sandstone cubes. 296

GROUP 45.

75. Beard, E. L., Cedar County. Oil-stones. 297
 76. Luscombe, T. T., Carthage. Tripoli. 297

GROUP 46.

77. Bennett & Reese, West Plains. Glass sand rock. 304
 78. Christy Fire Clay Co., St. Louis. Clays. 304
 79. Coleman, R. L., Bowling Green. Kaolin. 304
 80. Crystal Plate Glass Co., St. Louis. Glass sand rock. 304
 81. Dexter Pottery Co., Dexter. Potters' clay, samples of ware. 304
 82. Diamond Brick and Tile Co., Kansas City. Shale clay, samples of ware. 304
 83. Evens & Howard, St. Louis. Fire clay, samples of ware, Roman brick. 304
 84. Halstead, John, West Plains. Fire clay. 304
 85. Hydraulic Pressed Brick Co., Kansas City. Brick clays, samples of ware. 304
 86. Hydraulic Pressed Brick Co., St. Louis. Clays, samples of ware. 304

87. Jegglin, G. A., Calhoun. Potters' clay, samples of ware. 304
 88. Kelly, Michael, Truesdale. Rock clay. 304
 89. Mandle, I., Regina. Clays, samples of ware. 304
 90. Miller, A., High Hill. Fire clay. 304
 91. Pacific White Sand Co., Pacific. Glass sand rock. 304
 92. Western Burnt Clay Ballast and Paving Co., Cameron. Shale clay, burnt clay ballast. 304
 93. Winkle Terra Cotta Co., St. Louis. Terra cotta clay, molded terra cotta. 304

GROUP 48.

94. Artesian Company, Clinton. Photos of property. 321
 95. Excelsior Springs Co., Excelsior Springs. Photos of property. 321
 96. Lebanon Magnetic Springs, Lebanon. Photos of property. 321
 97. Pertle Springs Co., Warrensburg. Photos of property. 321

GROUP 49.

98. Iron Mountain Co., Iron Mountain. Products from concentrating detrital ore. 322

GROUP 51.

99. Washington University, St. Louis. Copper ore from Ste. Genevieve. 340

GROUP 53.

100. Empire Zinc Co., Joplin. Concentrates and other mill products. 347

GROUP 57.

101. Doe Run Lead Co., Doe Run. Concentrates and other mill products. 368
 102. St. Joseph Lead Co., Bonne Terre. Metallic lead pigs. Concentrates and other mill products. 368

GROUP 67.

103. Iron Mountain Co., Iron Mountain. Model of Iron Mountain and mine. 410
 104. Missouri World's Fair Commission, St. Louis. Relief maps of Missouri. 410
 105. St. Joseph Lead Co., Bonne Terre. Model of concentrating plant. 410

MONTANA.

GROUP 42.

1. Ada Mine, Running Wolf Creek. Silver-lead ore. 291
 2. Alice Gold and Silver Mining Co., Butte. Silver and lead ores, oxides, quartz, etc. 291
 3. Alice Mine, Argenta. Iron ore. 291
 4. Alice Mining Co., Castle. Silver-lead ore. 291
 5. Allie Brown Mine, Butte. Silver ore. 291

6. Allen & Green, Townsend. Silver-lead ore. 291
 7. Alpine Mine, Libby Creek. Silver ore. 291
 8. Alta California Mine, Cooke City. Silver ore. 291
 9. Ambrose Mine, Running Wolf Creek. Gold ore. 291
 10. Anaconda Mining Co., Butte. Silver and lead ores. 291
 11. Anderson, E., Maiden. Gold ore. 291

UNITED STATES.

12. Anderson, J. K., Maiden. Silver ore. 291
13. Anderson & Co., Maiden. Silver-lead ore. 291
14. Anderson & Rhodes, Maiden. Gold and silver-lead ores. 291
15. Anchor Mine, Argenta. Silver ore. 291
16. Axe, E., Jefferson. Silver-lead ore. 291
17. Azurite Mine, Yogo. Gold ore. 291
18. Baker Bros., Drummond. Silver ore. 291
19. Bandanna Mine, Carpenter Creek. Silver ore. 291
20. Banner Mine, Argenta. Gold and lead ores. 291
21. Bannister, E. D., Butte. Silver and silver-lead ores. 291
22. Barker Mine, Running Wolf Creek. Silver-lead ore. 291
23. Barnes, H. H. & Co., Castle. Silver-lead ore. 291
24. Beech, William, Missoula. Lead ore. 291
25. Bear Park Mining Co., Running Wolf Creek. Gold and iron ores. 291
26. Beck & Co., Bannock. Silver ore; descloizite. 291
27. Beck & Garret, Bannock. Silver and gold ores. 291
28. Beebe Mine, Argenta. Silver ore. 291
29. Benton Group Mines, Neihart. Silver-lead ore. 291
30. Bertana, S., Rochester. Gold and silver ores. 291
31. Big Hole Mine, Argenta. Silver ore. 291
32. Biglin, Mrs. P., Maiden. Silver-lead ore. 291
33. Big Ox Mining Co., Helena. Gold and silver ores. 291
34. Big Snowy Mine, Neihart. Silver-lead ore. 291
35. Big Whale Mine, Maiden. Silver ore. 291
36. Big Wheel Mine, Maiden. Gold and silver ores. 291
37. Bi-Metallic Mining Co., Granite. Silver ore. 291
38. Black Butte Mine, Judith. Iron ore. 291
39. Black Bell Mine, Maiden. Gold ore. 291
40. Black Hawk Mining Co., Castle. Silver-lead ore. 291
41. Black Warrior Mine, Cooke City. Silver-lead ore. 291
42. Blue Bell Mine, Vipond. Lead ore. 291
43. Blue Bird Mining Co., Butte. Silver ore and granulyte. 291
44. Blucher and Clipper Mines, Carpenter Creek. Silver ore. 291
45. Blue Granite Mountain Mine, White Sulphur Springs. Silver-lead ore. 291
46. Bolker Mine, North Mocassin. Silver ore. 291
47. Boston and Colorado Mining Co., Butte. Silver-lead and silver ores, rhodyte, staurolite. 291
48. Boston and Montana Co., Butte. Fel-site, silver ore, etc. 291
49. Boulder No. 2 Mine, Maiden. Silver ore. 291
50. Boundary Line Mining Co., Sweet Grass Hills. Silver-lead ore. 291
51. Bowie Mine, Phillipsburg. Lead ore. 291
52. Brainard, Gardner & Co., Maiden. Gold ore. 291
53. Brainard & Sage, Maiden. Silver-lead ore. 291
54. Brown Bros., Robinson. Gold-lead ore. 291
55. Browne, J. A., Dunkelburg. Gold and silver ores. 291
56. Brown, Lawrence A., Bannock. Silver ore. 291
57. Buckeye Mining Co., Missoula. Silver ore. 291
58. Bullion Mine, Carpenter Creek. Silver-lead ore. 291
59. Bunker Hill Mine, Cooke City. Silver-lead ore. 291
60. Burgess, W. H., Maiden. Gold and silver ores. 291
61. Butte and Boston Mining Co., Butte. Gold, silver and silver-lead ores, molybdenite. 291
62. Carbonate Mine, Alpine.* Gold and silver ores. 291
63. Carbonate Mine, Argenta. Silver ore. 291
64. Carbonate Mines Nos. 1 and 2. Maiden. Silver ore. 291
65. California Mining Co., Castle. Lead, silver and silver-lead ores. 291
66. Calliope Mine, Missoula. Gold ore. 291
67. Calvin, Amos & Co., Placer. Silver-lead ore. 291
68. Capitol Mine, Judith. Silver-lead ore. 291
69. Caplice & Co., Butte. Silver ore. 291
70. Carbonate Extension Mining Co., Zozel. Lead and silver-lead ores. 291
71. Carpenter, J. W., Townsend. Lead ore. 291
72. Carter Mine, Running Wolf Creek. Silver-lead ore. 291
73. Castle Crescent Mining Co., Castle. Silver-lead ore. 291
74. Cataract Mining Co., Comet. Gold and silver ores. 291
75. Cave Group Mining Co., Maiden. Silver-lead ore. 291
76. Champion Mining Co., Champion. Silver ore, quartz, stephanite. 291
77. Chapin, Lewis & Co., Castle. Silver-lead ore. 291
78. Chicadee Mine, Maiden. Gold and silver ores. 291
79. Chickannon Mining Co., Lo Lo. Gold and silver ores. 291
80. Childs, R. H., Missoula. Lead ore. 291
81. Childs, W. C., Helena. Gold and silver ores. 291
82. Chipmunk Mine, Cooke City. Silver ore. 291
83. Chloride Mine, Maiden. Gold and silver ores. 291

DEPARTMENT E.—MINES, MINING AND METALLURGY.

84. Christopher Columbus Mine, Dry Wolf Creek. Gold ore. 291
85. Claremont Mining Co., Stevensville. Silver ore. 291
86. Clark, B., Maiden. Gold, silver and silver-lead ores. 291
87. Clark, J. K. & Co., Butte. Selenite. 291
88. Clark, W. A., Butte. Silver and iron ores, argentite. 291
90. Clark, Will & Co., Highland. Silver ore. 291
91. Clark & Leggat, Butte. Surface silver. 291
92. Clear Grit Mine, Judith. Gold ore. 291
93. Cleopatra Mining Co., Lion City. Lead ore. 291
94. Cleopatra Mine, Neihart. Gold ore. 291
95. Cole, William, Crystal Mountain. Iron ore. 291
96. Colonel Sellers Mining Co., Castle. Silver-lead ore. 291
97. Cole, J. F., Maiden. Silver ore. 291
98. Collar Mine, Maiden. Silver ore. 291
99. Combination Mining Co., Black Pine. Silver ore and quartz, hubnerite, azurite, etc. 291
100. Compromise Mine, Neihart. Silver-lead ore. 291
101. Comstock, Jay, Placer. Petrified wood. 291
102. Connawingo Mine, Yogo. Gold ore. 291
103. Conley, James, Maiden. Silver ore. 291
104. Cornucopia Mining Co., Neihart. Gold and silver ores. 291
105. Cotton & White, Maiden. Silver-lead ore. 291
106. Cowan & Askwith, Missoula. Lead ore. 291
107. Cransen, C. S., Pioneer. Gold ore. 291
108. Crater Mine, Yogo. Gold ore. 291
109. Cunningham & Davis, Maiden. Silver-lead ore. 291
110. Cumberland Mining Co., Castle. Silver-lead ore, dendrites. 291
111. Curlew, Helena & Victor Mining Co., Victor. Gold and lead ores. 291
112. Custer Mining Syndicate, Placer. Silver-lead ore, pyrites. 291
113. Daisy Mine, Cooke City. Silver-lead ore. 291
114. Dakota Mine, Neihart. Silver-lead ore. 291
115. Daller & Largley, Silver Star. Gold and silver ores. 291
116. Dandy Mine, Maiden. Silver-lead ore. 291
117. Dark, Geo. W. & Co., Argenta. Lead and silver-lead ores. 291
118. Davis, W. R., Basin. Gold and silver ores. 291
119. Debuhr, John, New Leadville. Lead and silver-lead ores. 291
120. DeCamp & Bryson, Helena. Silver-lead ore. 291
121. Della and Quaker City Mines, Yogo. Gold ore. 291
122. Dexter Mining Co., Argenta. Horn silver, lead ore, country rock, talc. 291
123. Diamond, R. Mining Co., Neihart. Wall-rock, silver-lead ore. 291
124. Dickey, J. E., Butte. Silver ore. 291
125. Dickinson, W. H., Missoula. Lead ore. 291
126. Dividend Mining Co., Helena. Silver and gold ores. 291
127. Dollar Mine, Maiden. Silver-lead ore. 291
128. Draper, Dwinell & Norman, North Moccasin. Silver ore. 291
129. Draper, W. C., Maiden. Gold and silver ores. 291
130. Dry Gulch Mine, Helena. Free gold, tetradymite and quartz. 291
131. Dyer, William, Elliston. Silver and silver-lead ores. 291
132. East Mount Moriah Mine, Butte. Surface silver. 291
133. Eclipse Mine, Elkhorn. Silver ore. 291
134. Eldorado Mining Co., Missoula. Silver ore. 291
135. Elk Mining Co., Elkhorn. Lead and silver ores. 291
136. Ellen Mining Co., Snow Creek. Lead ore and manganese. 291
137. Ellen & Daller, Twin Bridges. Gold and silver ores. 291
138. Elliot, W. M., Helena. Nephrite, garnet, epidote. 291
139. Emory Mining Co., Zozel. Gold, silver and lead ores, pyrites, galena, quartz. 291
140. Emma Mine, Running Wolf Creek. Silver ore. 291
141. Enterprise Mine, Cooke City. Silver-lead ore. 291
142. Eureka Mine, Running Wolf Creek. Silver-lead ore. 291
143. Evening Star Mining Co., Neihart. Silver ore. 291
144. Felix Crescent Mining Co., Castle. Silver-lead ore. 291
145. Ferry, P., Clancy. Gold and silver ores. 291
146. Finn & Panky, Virginia City. Gold and silver ores. 291
147. Fisher Bros., Wickes. Silver ore. 291
148. Flanburg Mine, Carpenter Creek. Silver-gold ore. 291
149. Florence Mining Co., Cooke City. Silver-lead ore. 291
150. Forbis, W. P. & Co., Butte. Silver ore. 291
151. Forest Rose Mine, Dry Wolf Creek. Gold ore. 291
152. Foster, Lee, Butte. Surface silver. 291
153. Foster Mine, Neihart. Silver-lead ore. 291
154. Fox & Co., Champion. Gold ore. 291
155. Fraction Mine, Argenta. Silver-lead. 291
156. Franklin Mine, Pilgrim Creek. Silver-lead ore. 291
157. Freudenstein & Co., Butte. Surface silver, silver ore. 291

UNITED STATES.

158. Frusharin, Geo., Missoula. Silver ore. 291
159. Galt Mine, Neihart. Silver-lead ore, aragonite. 291
160. Geranium Mine, Snow Creek. Silver ore. 291
161. Gerhauser & Albrecht, St. Louis Gulch. Lead and silver-lead ores. 291
162. Gies & Allen, Maiden. Silver-lead ore. 291
163. Gies, V., Maiden. Gold and silver ores. 291
164. Gies & Co., Red Mountain. Silver ore. 291
165. Gilbert, H. S., Virginia. Gold and silver ores. 291
166. Gilt Edge Mine, Maiden. Gold ore. 291
167. Gilt Edge No. 2 Mine, Maiden. Gold ore. 291
168. Gladstone Mine, Argenta. Silver ore. 291
169. Gladstone Mine, Wolf Creek. Silver ore. 291
170. Gold Dust Mine, Dry Wolf Creek. Silver-lead ore. 291
171. Golden Eagle Extension Mine, Red Mountain. Gold ore. 291
172. Golden Eagle Mine, Judith. Gold ore. 291
173. Golden Leaf Co., Bannock. Silver and lead ores, silver oxides. 291
174. Goldsmith Mine, Argenta. Silver ore. 291
176. Gould, P. P., Big Hole Canyon. Gold and silver ores. 291
177. Gowrie Mining Co., Missoula. Lead and silver ores. 291
178. Grand Republic Mining Co., Elliston. Silver ore. 291
179. Granite Mountain Mining Co., Granite. Ruby silver, silver ore, realgar, manganese, etc. 291
180. Gray Jockey Mine, Vipond. Silver ore. 291
181. Great Northern Mine, Judith. Silver-lead ore. 291
182. Hand & Co., Butte. Surface silver; silver ore. 291
183. Hansen, Stein, Maiden. Gold and silver ores. 291
184. Harrison Mine, Red Mountain. Gold ore. 291
185. Harrison Mining Co., Elliston. Lead ore. 291
186. Hawkins & Co., Phillipsburg. Lead ore. 291
187. Hecla Mining Co., Lion City. Silver and lead ores, calamine, azurite, etc. 291
188. Hecla Mining Co., Thompson Falls. Lead ore. 291
189. Helter, A. M. & Bro., Helena. Silver-lead ore. 291
190. Hiawatha Mine, Judith. Gold ore. 291
191. Hidden Treasure Mining Co., Robertson. Silver-lead ore. 291
192. Higgins, W. I., Champion. Iron ore. 291
193. High View Mine, Virginia City. Silver ore. 291
194. Hill, J. J., Running Wolf Creek. Iron ore. 291
195. Hope Mining Co., Phillipsburg. Silver ore. 291
196. Horton, E. B., Stone Station. Silver-lead ore. 291
197. Horton & Eolin, New Chicago. Lead ore. 291
198. Hubbard Gold and Silver Mining Co., Gould. Gold and silver quartz. 291
199. Hudson Brothers & Co., Helena. Gold and silver ores. 291
200. Hudson Mining Co., Running Wolf Creek. Gold and silver-lead ores. 291
201. Iceberg Mine, Cooke City. Silver-lead ore. 291
202. Ida Perkins Mine, Maiden. Gold ore. 291
203. Ingersoll Mining Co., Castle. Silver-lead ore, diorite, quartz. 291
204. International Mine, Cooke City. Silver-lead ore. 291
205. Iron King Mine, Missoula. Silver ore. 291
206. Iron Mountain Mine, Argenta. Silver ore. 291
207. Iron Mountain Mining Co., Missoula. Lead ores, galena, etc. 291
208. Irvine, E. H. & Co., Washington Gulch. Gold, silver and silver-lead ores, placer gold. 291
209. I. X. L. Mine, Snow Creek. Silver and gold ores. 291
210. Jack, William & Co., Butte. Silver ore and quartz. 291
211. Johnson, M. W., Helena. Agatized quartzoid. 291
212. Johnson & Jackson, Elliston. Silver-lead ore. 291
213. J. T. Mine, Red Mountain. Silver ore, argentite. 291
214. Judge Mining Co., Castle. Silver-lead ore. 291
215. Justice Mine, Maiden. Silver-lead ore. 291
216. Keith, J. M., Missoula. Lead ore. 291
217. Kendal & O'Brien, Crystal Mountain. Gold and silver ores. 291
218. Kerr, Thomas, Maiden. Gold and silver ores. 291
219. Keystone Mining Co., Running Wolf Creek. Silver-lead ore. 291
220. Keystone & King Mining Co., Missoula. Silver ore. 291
221. King Mine, Sage Creek. Silver-lead ore. 291
222. King Solomon Mine, Neihart. Silver-lead ore. 291
223. Kirtz, H. & Co., Robinson. Silver-lead ore. 291
224. Kitty Morris Mining Co., Butte. Silver-lead ore. 291
225. Ladd, Marion & Co., Iron Creek. Iron ore. 291
226. Last Chance Mine, Elkhorn. Gold, silver and silver-lead ores. 291
227. Laughlin, Henry, Argenta. Silver ore. 291
228. Legal Tender Mining Co., Castle. Silver and silver-lead ores. 291
229. Lemon, Oscar, Tenderfoot Creek. Silver-lead ore. 291
230. Lennon, Jack, Maiden. Silver-lead ore. 291

DEPARTMENT E.—MINES, MINING AND METALLURGY.

231. Lexington Mining Co., Butte. Tin
pail encrusted with selenite. 291
232. Lexington Mining Co., Lexington.
Silver ore and oxides, blende, etc. 291
233. Lion Mining Co., Champion. Silver
ore. 291
234. Liberty Mine, Snow Creek. Silver-
lead ore. 291
235. Little Emma Mine, Dry Wolf Creek.
Gold ore. 291
236. Logue, William, Chester. Silver-
lead ore. 291
237. Lone Pine and Jayhawk Mining Co.,
Dewey's. Silver ore. 291
238. Lone Star Mine, Pilgrim Creek. Sil-
ver ore. 291
239. Lord Byron Mine, Cooke City. Sil-
ver-lead ore. 291
240. Louis Phillippe Mine, Argenta. Sil-
ver-lead and silver ores. 291
241. Mac Mining Co., Helena. Gold ore. 291
242. Maginnis Mining Co., Maiden. Gold,
silver and silver-lead ores. 291
243. Magnet Mine, Elkhorn. Silver ore.
291
244. Manitoba Mine, Dry Wolf Creek.
Silver ore. 291
245. Mantrap Mine, Elkhorn. Silver ore.
291
246. Marchesseau & Co., Butte. Silver
ore. 291
247. Marie Krall Mine, Neihart. Silver-
lead ore. 291
248. Marion & Co., Iron Creek. Iron ore.
291
249. Matthews, R. B., Maiden. Gold and
silver ores. 291
250. Marsh, R. & Co., Missoula. Lead
ore. 291
251. Matthews & Kingsley, Maiden. Gold
ore. 291
252. May W. Mine, Yogo. Gold ore. 291
253. Maurer, William, Maiden. Gold, sil-
ver and silver-lead ores. 291
254. Maurer & Schaeffer, Maiden. Gold
and silver ores. 291
255. Meridian Mine, Dry Wolf Creek.
Iron ore. 291
256. Metlen, Geo., Red Rock. Satin spar,
pyrolusite. 291
257. Merrimac Mining Co., Castle. Sil-
ver-lead ore. 291
258. McAdow, P. W., Maiden. Gold and
silver-lead ores, telluride, quartz. 291
259. McGhee & Co., Drummond. Garnets.
291
260. McIntosh & Co., Neihart. Silver ore,
quartz and pyrite. 291
261. McKean, William, Missoula. Lead
ore. 291
262. Miller, J. B., Silver Star. Gold and
silver ores. 291
263. McKinstry & Co., Butte. Silver ore.
291
264. Mineral Hill Co., Castle. Silver-lead
ore. 291
265. Mitchell & Co., Butte. Silver ore. 291
266. Mitchell & Bluett, Maiden. Silver
ore. 291
267. Mix & Barret, Neihart. Silver-lead
ore. 291
268. Moe, Wright & Wilson, Maiden.
Silver-lead ore. 291
269. Mitchell, James, Maiden. Silver-lead
ore. 291
270. Monarch Mining Co., Neihart. Silver
and silver-lead ores. 291
271. Montana Central Mine, Running
Wolf Creek. Silver-lead ore. 291
272. Mogul Mining Co., Neihart. Silver
and silver-lead ores. 291
273. Minnehaha Mine, Cooke City. Silver
ore. 291
274. Miller, George, Corbin. Silver and
silver-lead ores. 291
275. Mitchell, A. H. & Co., Dunkelburg.
Gold and silver ores; quartz; tourmaline.
291
276. Montana State. Skunk Gulch and
Sand Coulee iron ore; Big Blackfoot gold;
Oleson Gulch malachite; Hasmark gar-
nets; Dry Cottonwood tourmaline; Deer-
Lodge manganese; Glendive petrified
wood; agatized and rose quartz; chryso-
lite; Lewiston silver ore; Argenta Cave
stalaclite; Bloody Dick Creek tourmaline;
Bear Gulch dendrites; Neihart calcite and
iron ore; Phillipsburg lead and silver ore;
Elliston lead. 291
277. Monticello Mine, Yogo. Gold ore.
291
278. Morning Star Mine, Cooke City.
Silver-lead ore. 291
279. Morrow, William, Basin. Gold and
silver ores. 291
280. Morris, Mrs., Corbin. Cerussite.
291
281. Morning Star Mining Co., Neihart.
Silver ore. 291
282. Moscow Mine, Dry Wolf Creek.
Silver ore. 291
283. Mortson & Woodhurst, Running
Wolf Creek. Silver-lead ore. 291
284. Mosquito Mine, Cooke City. Silver
and lead ores. 291
285. Moulton Mining Co., Butte. Silver
ore, rhyolite. 291
286. Moulton Mine, Cooke City. Silver-
lead ore. 291
287. Mountain Side Mine, Running Wolf
Creek. Silver-lead ore. 291
288. Munroe Mine, Cooke City. Silver
ore. 291
289. Mueller & Co., Neihart. Silver-lead
ore, quartz. 291
290. Mountain View Mine, Blue Wing.
Silver ore. 291
291. Murphy, James, Maiden. Gold and
silver ores. 291
292. Murray, J. A., Butte. Silver-lead
ore. 291
293. Munson & Co., Maiden. Silver ore.
291
294. M. & M. Mine, Dry Wolf Creek.
Gold ore. 291
295. Mutte, William, Helena. Lead ore.
291
296. Murphy, J. H., Rimini. Silver-lead
ore. 291
297. Narrow Gauge Mine, Black Baldy.
Silver ore. 291
298. Neihart & Crandall, Neihart. Silver-
lead ore. 291

UNITED STATES.

299. New Chicago Mine, Red Mountain. Gold ore. 291
300. New World Mine, Cooke City. Silver and silver-lead ores. 291
301. Norman & Co., Maiden. Gold ore. 291
302. Noble Mine, Wisconsin. Gold and silver ores. 291
303. Nine-Mile Mining Co., Missoula. Gold ore; free gold. 291
304. Norman and Hanson, Red Mountain. Silver-lead ore. 291
305. North Boulder Mine, Maiden. Silver ore. 291
306. Northern Pacific Mine, Maiden. Silver ore. 291
307. North Home Mining Co., North Home. Silver ore. 291
308. Obelisk Mining Co., Basin. Silver-lead ore. 291
309. O'Brien, John, Helena. Gold and silver ores. 291
310. O'Hanlon Mine, Bear Paw Mountain. Silver-lead ore. 291
311. Oker, Joe, Garrison. Silver ore. 291
312. Oro Fino Mining Co., Champion. Silver ore. 291
313. Packard Mine, Beaver Creek. Silver-lead ore. 291
314. Park View Mine, Neihart. Silver-lead ore. 291
315. Parnell Mine, Cooke City. Silver-lead. 291
316. Pearl Mining Co., Phillipsburg. Lead ore. 291
317. Pay Rock Mine, Maiden. Silver ore. 291
318. Pellingier, E. M., Twin Bridges. Gold and silver ores. 291
319. Peary, L., Castle. Silver ore, tufa. 291
320. Pennington, Joseph, McCarty Mountain. Gold and silver ores. 291
321. Pew, Arthur & Co., Castle. Silver-lead ore. 291
322. Pilon, A., Argenta. Gold nuggets. 291
323. Phoenix Mining Co., Champion. Silver ore. 291
324. Pleasant View Mine, Missoula. Silver ore. 291
325. Pioneer Placer Co., Pioneer. Gold nuggets, carbonized wood. 291
326. Poland, Mrs. Kate, Maiden. Gold and silver ores. 291
327. Poland, M. L., Maiden. Gold and silver ores. 291
328. Powderly Mining Co., Robinson and Castle. Silver-lead ore. 291
329. Queen Melvina Mine, Yogo. Gold ore. 291
330. Queen of the Hills Mine, Argenta. Silver and silver-lead ores. 291
331. Rara Avis Mine, Cooke City. Silver-lead ore. 291
332. Ramsey, Jas. G. & Co., Butte. Silver and silver-lead ores. 291
333. Red Bud Mine, Argenta. Silver ore. 291
334. Redding, E., Jefferson. Silver and silver-lead ores. 291
335. Reed, H. S., Dry Cottonwood. Silver ore, manganese, molybdate. 291
336. Reed, William, Bonnar's Ferry. Lead ore. 291
337. Rena Mine, Argenta. Silver ore. 291
338. Rich & Gies, Virginia Gulch. Silver ore. 291
339. Rittenhouse Mine, Argenta. Silver ore. 291
340. Ridell, C., Maiden. Gold, silver and silver-lead ores, stalactite. 291
341. Root, F., Twin Bridges. Gold and silver ores. 291
342. Rothschild, Beck & Co., Bald Mountain. Vanadinite. 291
343. Royal Gold Mining Co., Medhurst. Gold ore. 291
344. Sage, Frank, Maiden. Gold and silver ores. 291
345. Sage, J. S., Maiden. Gold and silver ores. 291
346. Sage, J. F., Maiden. Silver ore. 291
347. Sager & Maurer, Maiden. Silver ore. 291
348. San Francisco Mine, Argenta. Silver ore. 291
349. Savage Mine, Carpenter Creek. Silver and silver-lead ores. 291
350. San Martina Mining Co., Missoula. Gold ore. 291
351. Savery, J. C., Cable. Gold ore, pyrites, calcites, malachite, etc. 291
352. Scott & Galigher, Argenta. Lead, silver and silver-lead ores. 291
353. Seligman, A. J., Argenta. Lead ore. 291
354. Shaughnessy, J. & Co., Libby. Lead ore. 291
355. Shaw, G. W., Missoula. Gold ore. 291
356. Shaw & Johnson, Helena. Silver and silver-lead ores. 291
357. Sheridan Silver Mining Co., Butte. Silver ore. 291
358. Sherman, B. R., White Sulphur Springs. Silver-lead ore. 291
359. Sherman, W. E. Mining Co., Castle. Silver-lead ore. 291
360. Shonbar Mining Co., Butte. Silver ore. 291
361. Silver Crown Mining Co., Champion. Silver ore. 291
362. Silver Horn Mine, Carpenter Creek. Silver-lead ore. 291
363. Silver Star Mining Co., Robinson. Silver-lead ore. 291
364. Silver Reef Mine, Carpenter Creek. Silver ore. 291
365. Sir Walter Scott Mine, Running Wolf Creek. Silver-lead ore. 291
366. Simpson Mine, Elkhorn. Silver ore. 291
367. Smith, Julian, Butte. Silver ore. 291
368. Smith, Ervine & Co., Butte. Silver ore. 291
369. Snow Bird Mine, Sheridan. Gold and silver ores. 291
370. Snow Storm Mine, Maiden. Gold and silver ores. 291
371. Southern Cross Mining Co., Georgetown. Gold ore. 291

DEPARTMENT E.—MINES, MINING AND METALLURGY.

372. Solid Silver Mining Co., Castle. Silver-lead ore. 291
373. Spanish Mine, Argenta. Lead ore. 291
374. South Fork Mine, Running Wolf Creek. Gold ore. 291
375. Spotted Colt Mine, Maiden. Gold ore. 291
376. Standard Mine, Argenta. Silver ore. 291
377. Standing Rock Mine, Phillipsburg. Manganese. 291
378. Steamboat Mine, Running Wolf Creek. Silver-lead ore. 291
379. St. Helena Mining Co., Helena. Gold and silver ores. 291
380. Stephens, C., Maiden. Gold and silver ores. 291
381. Stillwater Mine, Cooke City. Silver ore. 291
382. St. Louis and Montana Smelter, Argenta. Silver ores, litharge. 291
383. Stump Mine, Cooke City. Silver-lead ore. 291
384. Street Mine, Cooke City. Silver-lead ore. 291
385. Sullivan, Con., Butte. Silver ore. 291
386. Susquehanna Mine, Dry Wolf Creek. Gold ore. 291
387. Telephone Mine, Champion. Radiated tremolite. 291
388. T. C. Power Mine, Yogo. Gold ore. 291
389. Thomas Haw Mine, Argenta. Silver ore. 291
390. Tibbits Mining Co., Pioneer. Native gold. 291
391. Tierney, B. B. & Co., White Sulphur Springs. Silver-lead ore. 291
392. Tilden Mining Co., Argenta. Silver-lead and lead ores, quartz, carbonates. 291
393. Tower, E. M. & Co., Missoula. Gold, silver and lead ores. 291
394. Trestle, William, Twin Bridges. Gold and silver ores. 291
395. Trinidad Mine, Robertson. Silver-lead ore. 291
396. Turn Blade Mine, North Mocassin. Gold ore. 291
397. Turner, Mr., Butte. Surface silver. 291
398. Tuscarora Mine, Argenta. Lead and silver-lead ores. 291
399. Utopia Mine, Vipond. Silver ore. 291
400. Utica Mine, Running Wolf Creek. Gold ore. 291
401. Voltaire Mine, Judith. Silver and gold ores. 291
402. Van Beck, James, Virginia City. Gold and silver ores. 291
403. Vulcan No. 2 Mine, Butte. Surface silver. 291
404. Vantilbergh, William, Maiden. Gold and silver ores. 291
405. War Horse Mine, Dry Wolf Creek. Gold ore. 291
406. Wacesek Bros., Maiden. Silver ore. 291
407. Warmer, R. B. & Co., Maiden. Silver-lead. 291
408. Waverly Mine, Snow Creek. Gold ore. 291
409. West Carbonate Mine, Maiden. Gold and silver ores. 291
410. Weather Mine, Yogo. Gold ore. 291
411. West Granite Mine, Granite. Silver ore. 291
412. West Iron Mountain Co., Missoula. Lead ore. 291
413. White Warrior Mine, Cooke City. Silver-lead ore. 291
414. Whippoorwill Mining Co., Carpenter Creek. Silver-lead ore. 291
415. Willard & Chapin, Alhambra. Silver-lead ore. 291
416. Whitlach Union & McIntyre Co., Unionville. Gold ore and pyrites. 291
417. Willis, O., Utopia District. Magnetite. 291
418. Williams & Fuller, Maiden. Gold and silver ores. 291
419. Wilson, Hank, Neihart. Silver and silver-lead ores. 291
420. Wilson, W. E., Maiden. Gold, silver and silver-lead ores. 291
421. Wilson, William, Butte. Surface silver. 291
422. Winston Bros., Jefferson. Silver and silver-lead ores. 291
423. Wisconsin Mine, Cooke City. Gold and silver ores. 291
424. Witter & Chisolm, Argenta. Silver ore. 291
425. Yellowstone Mining Co., Castle. Silver-lead ore. 291
426. Ziegler, Louis, Placer. Gold and silver ores. 291
427. Zozel, William, Zozel. Lead ore. 291

GROUP 43.

428. Brown's Coal Mine, Copperopolis. Coal. 292
429. Dusett & Anderson, Castle. Coal. 292
430. Metlen, George, Red Rock. Coal. 292
431. Montana Coal and Iron Co., Collar Creek. Coal. 292
432. Morans, Mr., Flat Willow. Coal. 292
433. Montana State.
a Cannel coal from Lewistown. 292
b Asphaltum from Red Lodge. 293
434. Potts, Dr., Flat Willow. Coal. 292
435. Shields Mine, Belt Creek. Coal and coking coal. 292
436. Thomas & Rees, Castle. Coal. 292

GROUP 44.

437. Alice Gold and Silver Mining Co., Butte. Granite. 296
438. Billings Sandstone Co., Billings. Building stone. 296
439. Briss, Herman, Helena. Marble. 296
440. Butte and Boston Mining Co., Butte. Granite. 296
441. Cumberland Mining Co., Castle. Marble. 296
442. Emery Mining Co., Zozel. Porphyry. 296
443. Great Falls Stone Company, Great Falls. Building stone. 296
444. Irvine & Co., Dempsey Creek. Marble. 296

UNITED STATES.

445. Louis Phillippe Mine, Argenta. Jasper, granite and limestone. 296
446. Montana State. Sweet Grass Hills marble, Lewiston building rock, Wabash jasper and chalcedony, Brown's Gulch rhyolite, Upper Carpenter Creek building stone. 296
447. Reed, H. S., Dry Cottonwood. Porphyry. 296
448. Reed & Co., Deer Lodge. Building rock. 296
449. Rittenhouse Mine, Argenta. Jasper. 296
450. Waverly Mine, Snow Creek. Marble. 296
- GROUP 45.**
451. Moston, Charles, Missoula. Tripoli. 297
- GROUP 46.**
452. Bedard, J. A., Frenchtown. Fire clay. 304
453. Big Hole Mine, Argenta. Graphite. 298
454. Fletcher, F. N., Pony. Graphite. 298
455. Gallatin Valley Asbestos Co., Bozeman. Asbestos. 307
456. Garrison Fire Clay Co., Garrison. Red and fire clays, brick. 304
457. Metlen, George, Red Rock. Mica. 305
458. Midnight Mining Co., Philipsburg. Clay. 304
459. Montana Asbestos Co., Bozeman. Asbestos. 307
460. Montana State.
a Graphite from Dillon. 298
b Silica from New Chicago. 304
- GROUP 47.**
461. Boston and Montana Co., Divide. Limestone. 309
462. Clark, W. A., Divide. Limestone, calcite. 309
463. Iron Mountain Mine, Argenta. Limestone. 309
- GROUP 48.**
464. Goodman's Ranch, Belt Creek. Gypsum. 320
465. Hecla Mining Co., Lion City. Sulphur. 317
466. Monarch Mining Co., Neihart. Gypsum. 320
467. Montana State.
a Yellow and red ochres. 319
b Gypsum from Kibbey. 320
- GROUP 51.**
468. Anaconda Mining Co., Butte.
a Native copper. 339
b Silver-copper and copper ores. 340
469. Bailey, Tyler & Co., Sheep Creek. Copper ore. 340
470. Bayard Mine, Sheep Creek. Copper ore. 340
471. Best & Co., Helmsville. Copper ore. 340
472. Big Wheel Mine, Maiden. Silver-copper ore. 340
473. Black Bull Mine, Maiden. Copper ore. 340
474. Blue Bird Mining Co., Butte. Copper ore. 340
475. Boston and Colorado Mining Co., Butte.
a Native copper. 339
b Copper ore, roasted ore, matte, slag, etc. 340
476. Boston and Montana Co., Butte. Copper ore, concentrates, matte, slag, roasted ore, etc. 340
477. Butte and Boston Mining Co., Butte. Copper ore, concentrates, matte, slag, etc. 340
478. Chambers, D. W., Maiden. Silver-copper ore. 340
479. Chickannon Mining Co., Lo Lo. Copper ore. 340
480. Clark, J. K. & Co., Butte. Silver-copper ore. 340
481. Clark, W. A., Butte. Copper ore, concentrates, roasted ore, matte, slag, etc. 340
482. Clear Grit Mine, Butte. Copper ore. 340
483. Combination Mining Co., Black Pine. Copper ore and pyrites. 340
484. Cord Wood Mine, Vipond. Copper ore. 340
485. Cunningham & Davis, Maiden. Silver-copper ore. 340
486. Dandy Mine, Maiden. Silver-copper ore. 340
487. Forbis, W. P. & Co., Butte. Copper ore. 340
488. Frugler, H., Corbin. Native copper. 339
489. Gies & Allen, Maiden. Copper ore. 340
490. Golden Leaf Mine, Bannock. Copper ore, gray copper, copper pyrite. 340
491. Glendale Smelter, Glendale. Slag. 340
492. Glendale Mine, Judith. Silver-copper ore. 340
493. Hausman, John, Zozel. Copper ore. 340
494. Hecla Mining Co., Lion City. Copper ore and concentrates. 340
495. Homestake Mine, Cooke City. Copper ore. 340
496. Iron Clad Age Mine, Maiden. Silver-copper ore. 340
497. Irvine, E. H. & Co., Missoula. Copper ore. 340
498. King & Co., Pilgrim Creek. Copper ore. 340
499. Kroger, W. W., Phillipsburg. Copper ore. 340
500. Largey, P. A. & Co., Butte. Copper ore. 340
501. Laughlin, Henry, Argenta. Copper ore. 340
502. Leggart, John J., Butte. Copper ore. 340
503. Lexington Mining Co., Lexington. Copper ore. 340
504. Maginnis Mining Co., Maiden. Silver-copper ore. 340
505. Maurer & Schaeffer, Maiden. Copper ore. 340
506. McAuley, John J., Clancy. Silver-copper ore. 340
507. Mitchell, A. H. & Co., Dunkelburg. Copper and silver-copper ores. 340

DEPARTMENT E.—MINES, MINING AND METALLURGY.

- | | |
|--|---|
| <p>508. Mulville, S., Butte. Copper and silver-copper ores. 340</p> <p>509. Moffet & Co., Camp Creek. Copper ore. 340</p> <p>510. Montana, State. Surface copper, from Horse Canyon. 339</p> <p>511. Murray, J. A., Butte. Copper ore. 340</p> <p>512. Muth, William, Helena. Copper ore. 340</p> <p>513. North Hampton Mining Co., Phillipsburg. Gray copper ore. 340</p> <p>514. Ore-Cache Mine, Maiden. Silver-copper ore. 340</p> <p>515. Park View Mine, Neihart. Copper ore. 340</p> <p>516. Parrot Silver & Copper Co., Butte.
 <i>a</i> Native copper. 339
 <i>b</i> Copper ore, converter slag. 340
 <i>c</i> Metallic copper, copper button. 342</p> <p>517. Peacock Mine, Cooke City. Copper ore. 340</p> <p>518. Peterson Bros., Clancy. Silver-copper ore. 340</p> <p>519. Redding, E., Clancy. Silver-copper ore. 340</p> <p>520. Rittenhouse Mine, Argenta. Copper ore. 340</p> <p>521. Ronan, R. & Co., Arlee. Copper ore. 340</p> <p>522. Ross, J. T., Elkhorn. Copper ore. 340</p> <p>523. Sage, Frank, Maiden. Silver-copper ore. 340</p> <p>524. Shaw & Johnson, Helena. Copper ore. 340</p> <p>525. Silver King Mining Co., Thompson Falls. Silver and copper ores. 340</p> | <p>526. Strobe Bros., Clancy. Silver-copper ore. 340</p> <p>527. Sulligman & Co., Argenta. Copper ore. 340</p> <p>528. War Horse Mine, Dry Wolf Creek. Copper ore. 340</p> <p>529. Ware, J. W., Sheep Creek. Copper ore. 340</p> <p>530. Whippoorwill Mining Co., Carpenter Creek. Silver, copper and lead ores. 340</p> <p style="text-align: center;">GROUP 52.</p> <p>531. College of Montana, Deer Lodge. Metallic tin. 345</p> <p>532. Winters, Harry, Placer. Stream tin. 344</p> <p style="text-align: center;">GROUP 54.</p> <p>533. Dean & McArthur, Wickes. Bismuth. 359</p> <p style="text-align: center;">GROUP 55.</p> <p>534. Champion Mining Co., Champion.
 <i>a</i> Silver amalgam. 362
 <i>b</i> Silver retort, silver brick. 363</p> <p>535. Hecla Smelter, Glendale. Bullion. 363</p> <p style="text-align: center;">GROUP 56.</p> <p>536. Champion Mining Company, Champion. Roasted ore, car samples, flue dust, pan tailings, etc. 364</p> <p>537. Hecla Smelter, Glendale. Slag, matte, furnace crusts, flue dust, etc. 364</p> <p style="text-align: center;">GROUP 68.</p> <p>538. Original Mill, Bannock. Old wooden cam. 305</p> |
|--|---|

NEW HAMPSHIRE.

GROUP 42.

1. Warren Zinc Co., Warren. Zinc, Lead and silver ore. 291

GROUP 44.

2. Anderson, Ola, Concord. Granite. 296
3. Anderson & Swinson, Concord. Granite. 296
4. Barker, L. O., Concord. Granite. 296
5. Belknap Granite Co., West Alton. Granite. 296
6. Black Mountain Granite Co., Haverhill. Granites. 296
7. Frazier, John A., Concord. Granite table. 296
8. Great Falls Granite Co., Somersworth. Granite. 296

9. Kitredge & Stevens, Milford. Granite. 296
10. Matthewson, N. P., Milford. Granite. 296
11. New England Granite Co., Concord. 296
12. New Hampshire Molded Granite Co., Keene. Molded granite. 296
13. Sunappe Granite Co., Sunappe. Granite. 296
14. Thompson, J. B., Milford. Granite. 296
15. Young & Son, Troy. Granite. 296

GROUP 46.

16. Palermo Mica Co., North Groton. Mica. 305

NEW MEXICO.

GROUP 42.

1. Anondaga Mine, Kingston Dist. Silver and lead ores. 291
2. Antelope Mine, Hermosa Dist. Gold, silver and lead ores. 291
3. Argonaut Mine, Chloride Dist. Gold and silver ores. 291
4. Bernalillo County. Gold, silver and iron ores. 291
5. Black Colt Mining Co., Kingston Dist. Gold and silver ores. 291
6. Black-Eyed Susan Mine, Kingston Dist. Silver and lead ores. 291
7. Black Knife Mine, Fair View Dist. Silver and lead ores. 291
8. Bonanza Mine, Chloride Dist. Gold and silver ores. 291
9. Bonanza Mining Co., Hillsboro Dist. Gold and silver ores. 291
10. Brush Heap M'f'g Co., Kingston Dist. Gold, silver and lead ores. 291
11. Carbonate Mine, Tierra Blanca Dist. Gold and silver ores. 291
12. Cayuga Chief Mine, Kingston Dist. Silver and lead ores. 291
13. Cecil Mine, Tierra Blanca Dist. Gold, silver and lead ores. 291
14. Cecil No. 2 Mine, Tierra Blanca Dist. Gold and silver ores. 291
15. Christopher Columbus Mine, Chloride Dist. Gold and silver ores. 291
16. Climax Mine, Fairview Dist. Gold and silver ores. 291
17. Colfax County. Gold, silver and iron ores. 291
18. Colossal Mining Co., Chloride Dist. Gold and silver ores. 291
19. Copper King Mining Co., Hillsboro Dist. Gold and silver ores. 291
20. Dona Ana County. Gold, silver, lead and iron ores. 291
21. Dreadnaught Mine, Fairview Dist. Silver ore. 291
22. Elephant Mine, Grafton Dist. Gold and silver ores. 291
23. Emporia Mine, Grafton Dist. Gold and silver ores. 291
24. Foster, Mrs. S. P., Hermosa Dist. Gold, silver and lead ores. 291
25. Gen. Sheridan Mine, Kingston Dist. Silver, lead and manganese ores. 291
26. Gold Mining Co., Hillsboro Dist. Gold and silver ores. 291
27. Gold Standard Mining & Milling Co., Sierra County. Gold bearing quartz. 291
28. Good Hope Bonanza Mining & Milling Co., Sierra County. Gold bearing quartz. 291
29. Grant County. Gold, silver, lead, iron and zinc ores. 291
30. Gray Eagle Mining Co., Kingston Dist. Gold and silver ores. 291
31. Great Republic Mine, Grafton Dist. Gold and silver ores. 291
32. Gypsy M'f'g Co., Kingston Dist. Gold and silver ores. 291
33. Homestake Mine, Hermosa Dist. Silver and lead ores. 291
34. Hoosier Boy Mine, Chloride Dist. Silver and lead ores. 291
35. Hornet Mine, Tierra Blanca Dist. Gold and silver ores. 291
36. Iron King Mine, Kingston Dist. Silver, lead and manganese ores. 291
37. Iron Reef Mine, Fairview Dist. Iron ore. 291
38. Ivanhoe Mine Grafton Dist. Gold and silver ores. 291
39. "L" Mine, Hermosa Dist. Gold, silver and lead ores. 291
40. Lincoln County. Gold, silver, iron and lead ores. 291
41. Log Cabin Mine, Tierra Blanca Dist. Gold and silver ores. 291
42. Lost Heir Mine, Chloride Dist. Silver and lead carbonates. 291
43. Mail Line Mine, Fairview Dist. Gold and silver ores. 291
44. Mamie Richmond Mining & Milling Co., Sierra County. Gold bearing quartz. 291
45. Midnight Mining Co., Chloride Dist. Gold silver ores. 291
46. Miles Standish Mine, Lake Valley Dist. Chloride and horn silver. 291
47. Miner's Dream Mine, Kingston Dist. Silver and lead ores. 291
48. Monte Cristo Mine, Chloride Dist. Gold and silver ores. 291
49. Montezuma Mine, Grafton Dist. Gold and silver ores. 291
50. Murphy, Thomas, Hillsboro Dist. Collection of minerals. 290
51. Ocean Wave Mine, Hermosa Dist. Gold, silver and lead ores. 291
52. Palomas Chief Mining Co., Hermosa Dist. Gold, silver and lead ores. 291
53. Pelican Mining Co., Hermosa Dist. Gold, silver and lead ores. 291
54. Readjuster Mine, Fairview Dist. Silver ore. 291
55. Rio Arriba County. Gold, silver and iron ores. 291
56. San Miguel County. Gold, silver, iron and zinc ores. 291
57. Santa Fé County. Gold, silver and iron ores; table made of ores and gems. 291
58. Sierra County. Lead and iron ores and carbonates. Cabin made of ores. 291
59. Silver Monument Mining Co., Chloride Dist. Gold and silver ores. 291
60. Socorro County. Gold, silver, iron and lead ores. 291
61. St. Cloud Mine, Chloride Dist. Gold and silver ores. 291
62. Taos County. Gold, silver and iron ores. 291
63. Troeger, R. C., Hillsboro Dist. Collection of minerals. 290
64. Valencia County. Gold, silver and iron ores. 291
65. Victorious Chief Mine, Tierra Blanca Dist. Gold, silver and lead ores. 291

DEPARTMENT E.—MINES, MINING AND METALLURGY.

GROUP 43.

66. Atchison, Topeka & Santa Fé R. R.,
New Mexico. Bituminous and anthracite
coal. 292

GROUP 44.

67. Grant County. Marble; ricolite; slate. 296
68. Sierra County. Marble. 296

GROUP 46.

69. Sierra County. Kaoline containing
aluminum. 306
70. Socorro County. Fire clay. 304

GROUP 47.

71. Dona Ana County. Gypsum. 313

GROUP 48.

72. Dona Ana County.
a Sulphates and carbonates of soda 316
b Sulphur. 317
c Borax 318
73. Grant County.
a Alum. 316
b Sulphur. 317
c Borax. 318

GROUP 51.

74. Argonaut Mine, Chloride Dist. Cop-
per ore. 340
75. Bernalillo County. Copper ores. 340
76. Black Colt Mining Co., Kingston
Dist. Copper ore. 340
77. Black Knife Mine, Fairview Dist.
Copper ore. 340
78. Bonanza Mine, Chloride Dist. Copper
ore. 340
79. Bonanza Mining Co., Hillsboro Dist.
Copper ore. 340
80. Christopher Columbus Mine, Chloride
Dist. Copper ore. 340
81. Climax Mine, Fairview Dist. Copper
ore. 340
82. Colfax County. Copper ores. 340
83. Colossal Mining Co., Chloride Dist.
Copper ore. 340

84. Copper King Mining Co., Hillsboro
Dist. Copper ore. 340
85. Dreadnaught Mine, Fairview Dist.
Copper ore. 340
86. Emporia Mine, Grafton Dist. Copper
ore. 340
87. Foster, Mrs. S. P., Hermosa Dist.
Copper ore. 340
88. Gold Mining Co., Hillsboro Dist. Cop-
per ore. 340
89. Grant County. Copper ores. 340
90. Gray Eagle Mining Co., Kingston
Dist. Copper ore. 340
91. Great Republic Mine, Grafton Dist.
Copper ore. 340
92. Ivanhoe Mine, Grafton Dist. Copper
ore. 340
93. Mail Line Mine, Fairview Dist. Cop-
per ore. 340
94. Midnight Mining Co., Chloride Dist.
Copper ore. 340
95. Monte Cristo Mine, Chloride Dist.
Copper ore. 340
96. Montezuma Mine, Grafton Dist. Cop-
per ore. 340
97. Readjuster Mine, Fairview Dist. Cop-
per ore. 340
98. Rio Arriba County. Copper ores. 340
99. San Miguel County. Copper ores. 340
100. Santa Fé County. Copper ores. 340
101. Sierra County. Copper ores. 340
102. Silver Monument Mining Co., Chloride
Dist. Copper ore. 340
103. Socorro County. Copper ores. 340
104. St. Cloud Mine, Chloride Dist. Cop-
per ore. 340
105. Taos County. Copper ores. 340
106. Valencia County. Copper ores. 340

GROUP 67.

107. Clark, Mrs. Ellis. Model of Silver
Mining Co.'s properties. 410
108. Inter-Republic Mining & Milling Co.,
Sierra County. Relief model of mines
near Las Animas Peak. 410
109. Sierra County. Relief model of the
Illinois mine; miner's cabin made of ores. 410

NEW YORK.

GROUP 42.

1. Ancram Iron Ore Company, Ancram.
Iron ore. 291
2. Chateaugay Ore & Iron Co., Platts-
burg. Iron ore. 291
3. Clinton Iron Ore Company, Clinton.
Iron ore. 291
4. Furnaceville Iron Company, Ontario.
Iron ore. 291
5. Hudson River Ore & Iron Co., Burden.
Iron ore. 291
6. Magnetic Iron Ore Company, New
York. Iron ore. 291
7. Port Henry Iron Ore Company, Port
Henry. Iron ore. 291
8. Rossie Iron Works, Spragueville.
Iron ore. 291

9. Tilly Foster Iron Mines, Tilly Foster.
Iron ore. 291
10. Tower, A. E., & Bro., Poughkeepsie.
Iron ore. 291
11. Witherbee, Sherman & Co., Port
Henry. Iron ore. 291

GROUP 43.

12. Allegany County. Petroleum. 294
13. Allen, R., Alma. Petroleum. 294
14. Allen & Sternberg, Bolivar. Petro-
leum. 294
15. Andrus & Sons, Bolivar. Petroleum. 294
16. Davis & Torrey, Alma. Petroleum. 294
17. Laubenthal, —, Allegany. Petroleum. 294
18. McDonald, Mr., Alma. Petroleum. 294

UNITED STATES.

19. Miles, I., Scio. Petroleum. 294
20. Mulken, Mr., Richburg. Petroleum. 294
21. Norton, Mr., Scio. Petroleum. 294
22. Penny, W. J., Greenwood. Petroleum. 294
23. Scott, R., Bolivar. Petroleum. 294
24. Shерley & Hostetter, Alma. Petroleum. 294
25. Sims, Mr., Four-Mile. Petroleum. 294
26. Union Oil Company, Allegany. Petroleum. 294

GROUP 44.

27. Adams Bros., Chaumont. Limestone. 296
28. Bogart, M. L., Waverly. Sandstone. 296
29. Boice, Hewitt, Rondout. Sandstone. 296
30. Bouton, Arthur F., Roxbury. Sandstone. 296
31. Brady & Co., Rochester. Limestone. 296
32. Brown, William H., Grand View. Sandstone. 296
33. Buffalo Cement Company, Buffalo. Limestone. 296
34. Clarke, F. G., Bluestone Company, Oxford. Sandstone. 296
35. Clark, S. W., Willsborough Point. Limestone. 296
35. Clarkson, Thomas S., Potsdam. Sandstone. 296
37. Dibble, Alfred, Belvidere. Sandstone. 296
38. Drake, Stratton & Co., Sandy Hill. Limestone. 296
39. Duford & Son, Chaumont. Limestone. 296
40. Foery & Kastner, Rochester. Limestone. 296
41. Fogelsonger, D. R. & H., Buffalo. Limestone. 296
42. Glens Falls Company, Glens Falls. Limestone. 296
43. Gotts, Mr., Medina. Sandstone. 296
44. Gowdy, Hiram, Lowville. Limestone. 296
45. Horan Bros., Medina. Sandstone. 296
46. Jennings, Mrs., Saratoga. Granite. 296
47. Jointa Lime Company, Glens Falls. Limestone. 296
48. Kilgour, F. A., Parker's Glen. Sandstone. 296
49. King Granite Company, New York. Sandstone. 296
50. Lynch, Daniel, Minerva. Granite. 296
51. McClune, C. C., Ithaca. Sandstone. 296
52. Mohawk Valley Stone Company, Palatine Bridge. Limestone. 296
53. Morris & Strobel, Le Roy. Limestone. 296
54. Olean Bluestone Company, Olean. Sandstone. 296
55. Osterhoudt, Julius, Wilbur. Sandstone. 296
56. Persbacher Bros. & Co., Callicoon. Flagstone. 296

57. Pitkin's, Peter, Sons, Rochester. Sandstone. 296
58. Potsdam Red Sandstone Company, Potsdam. Sandstone. 296
59. Shaper, A. E., Canajoharie. Limestone. 296
60. Shear & Co., Schenectady. Sandstone. 296
61. Slade, Charles, Saratoga. Limestone. 296
62. St. Lawrence Marble Company, Gouverneur. Marble. 296
63. Thomas, Evan, Prospect. Limestone. 296
64. Thousand Islands Granite Company, Montreal, Can. Granite. 296
65. Ulster Bluestone Company, Warsaw. Sandstone. 296
66. Warsaw Bluestone Company, Warsaw. Sandstone. 296

GROUP 46.

67. Abbey, B. G., Allen's Hill. Clay. 304
68. Adams Brick & Terra Cotta Co., Buffalo. Clay. 304
69. Adirondack Pulp Company, Gouverneur. Talc. 305
70. Anderson Pressed Brick Company, Staten Island. Clay and pressed bricks. 304
71. Asbestos Pulp Company. Gouverneur. Talc. 305
72. Baeb, Julius, Cohoes. Clay. 304
73. Bolton, William, Evans. Clay. 304
74. Bostwick, W. H., Spencer. Clay. 304
75. Brush Bros., Buffalo. Clay and sand. 304
76. Brush & Smith, Jewettville. Shale and sample brick. 304
77. Buffalo Star Brick Company, Buffalo. Clay. 304
78. Burke & Mead, Canandaigua. Clay and sample brick. 304
79. Campbell, T. B., Newfield. Paving and building brick and clay. 304
80. Carpenter Bros., Sea Cliff. Stoneware clay, fire sand, kaolin, etc. 304
81. Celadon Terra Cotta Company, Alfred Centre. Clay and roofing tile. 304
82. Central New York Drain-tile Company, Chittenango. Clay and drain-tile. 304
83. Coats Bros., Raymondville. Clay. 304
84. Coe, S. E., Mohawk. Clay. 304
85. Dolin, John, Hoosick Falls. Clay. 304
86. Dunn, Dolan & Co., Oyster Bay. Clay and sand. 304
87. Edgerton, W.D., Oswego Falls. Clay. 304
88. Eisenhardt, R.G., Horseheads. Clay. 304
89. Empire Brick Manufacturing Company, Breesport. Clay. 304
90. Excelsior Brick Company, Haverstraw. Clay and sand. 304
91. Ferguson, Alexander, Troy. Clay. 304
92. Fisher's Island Brick Company, Long Island. Clay and sand. 304
93. Flagler & Allen, Arlington. Clay. 304
94. Garrett, H. L., South Trenton. Clay. 304
95. Godfrey, N. W., Northport. Grit, sand and gravel. 304

DEPARTMENT E.—MINES, MINING AND METALLURGY.

96. Glens Falls Terra Cotta Company, Glens Falls. Clay, brick and terra cotta. 304
97. Grimes, H. C., Amsterdam. Clay. 304
98. Hayne, P., Goshen. Clay and drain-tile. 304
99. Hilton, Wm., Dunkirk. Clay and brick. 304
100. Hornellsville Brick & Terra Cotta Co., Hornellsville. Brick and shale. 304
101. Jones, Dr., Cold Spring. Clay and sand. 304
102. Jones, Oliver, Jones' Point. Sand. 304
103. Kreischer Bros., Staten Island. Clays; sand; kaolin. 304
104. Lester, A., Owasco. Clay, drain-tile and brick. 304
105. Longbottom, George, Fresh Pond. Clay. 304
106. Lythe & Sons, Angola. Shale. 304
107. Mahan, G. W., Great Neck. Clay. 304
108. Mosell, A., Lockport. Clay. 304
109. McCabe Bros., Greenridge. Clay. 304
110. McClean, Alexander, Catskill. Clay, brick and sand. 304
111. McCusker, M. J., Jamestown. Clay, brick and drain-tile. 304
112. McDuffie, H., Gloversville. Clay. 304
113. Mechanicsville Brick Company, Mechanicsville. Clay. 304
114. Myers, Martin, Farmingdale. Brick, clay and sand. 304
115. Northport Fire Clay Company, Northport. Stoneware, clay and fire sand. 304
116. Newton Bros., Crescent. Clay. 304
117. New York Brick & Paving Co., Syracuse. Clay and brick. 304
118. Ogden Brick Company, Binghamton. Clay. 304
119. Onondaga Vittrified Brick Company, Syracuse. Shale, clay and brick. 304
120. Ouimet, J., Plattsburg. Clay. 304
121. Paige Bros., Ogdensburg. Clay. 304
122. Parry, W. W., Rome. Clay and brick. 304
123. Peck, B. F., East Bethany. Clay and drain-tile. 304
124. Post Bros., East Williston. Clay and brick samples. 304
125. Riesterer, M., Tonawanda. Clay. 304
126. Rochester Brick & Tile Manufacturing Co., Rochester. Clay and brick. 304
127. Sanford, C. L., Southold, Long Island. Clay and brick. 304
128. Seneca River Brick Company, Baldwinsville. Clay and brick. 304
129. Sigler, J., Clarkson. Clay. 304
130. Smith, J. B., St. Johnsville. Clay. 304
131. Staten Island Kaolin Company, Kreischerville. Clay. 304
132. Stoutner, William, Gloversville. Clay. 304
133. Terry, J. B., Southold, Long Island. Pottery clay. 304
134. Turner, J., Randolph. Clay. 304
135. Underhill, W. A., Brick Company, Croton Landing. Clay, sand and brick. 304
136. Van Dusen, F. M., Glasco. Clay and sand. 304
137. Vernon, M. H., Florida. Clay. 304
138. Watertown Pressed Brick Company, Watertown. Clay. 304
139. Watson, Robert, Madrid. Clay. 304
140. Wheeler, O. B., Middletown. Clay and pottery. 304
141. Williams, C. L., Saratoga. Brick. 304
142. Williams, William, Durhamville. Glass sand. 304
143. Wrape & Peck, Carthage. Clay. 304
144. Wyandance Brick & Terra Cotta Co., Wyandance. Brick; clay. 304

GROUP 47.

145. Cayuga Plaster Company, Union Springs. Gypsum. 313
146. Garbutt, J. W., Garbuttville. Gypsum. 313
147. Hurd, William C., Fayetteville. Gypsum. 313

GROUP 48.

148. Atlantic Salt Company, Warsaw. Salt. 314
149. Clinton Metallic Paint Company, Clinton. Mineral paint. 319
150. Duncan Salt Company, Silver Springs. Salt. 314
151. Elko Mining, Milling & Manufacturing Co. Mineral paint. 319
152. Empire Salt Company, Warsaw. Salt. 314
153. Genesee Salt Company, New York. Salt. 314
154. Guinlock & Humphrey, Warsaw. Salt. 314
155. Hall, Robert A., Whitehall. Mineral paint. 319
156. Hawley Salt Company, Warsaw. Salt. 314
157. Kerr Salt Company, Rock Glen. Salt. 314
158. Lehigh Salt Mining Company, Le Roy. Salt. 314
159. Le Roy Salt Company, Le Roy. Salt. 314
160. Onondaga Coarse Salt Association, Syracuse. Salt. 314
161. Pearl Creek Salt Company, Pearl Creek. Salt. 314
162. Perry Salt Company, Perry. Salt. 314
163. Retsof Mining Company, Retsof. Salt. 314
164. Royal Salt Company, Mt. Morris. Salt. 314
165. Warsaw Salt Company, Warsaw. Salt. 314
166. York Salt Company, York. Salt. 314

NORTH CAROLINA.

GROUP 42.

1. Alexander, C. W., Indian Trail. Gold ore. 291
2. Anderson, H., Rockford. Magnetite. 291
3. Atwood, K., Whitehead. Magnetite. 291
4. Avery, W. W., Plumtree. Titaniferous magnetite. 291
5. Bailey, Mrs., Orleans. Limonite. 291
6. Ballou, N. B., Crumpler. Magnetite. 291
7. Ballou & Gentry, Jefferson. Manganiferous iron ore. 291
8. Barringer Mining Company, Gold Hill. Gold ore. 291
9. Barringer, Mr., Newton. Magnetite. 291
10. Bates, J. G., Franklin. Red hematite. 291
11. Bates, Mr., Monroe. Gold ore. 291
12. Bement, Clarence M., Philadelphia, Pa. Collection of minerals and gems. 291
13. Bessemer City Mining Company, Bessemer City. Limonite; turgite; magnetite. 291
14. Bess, Lawson, Orleans. Magnetite. 291
15. Boger, Martin, Bost's Mills. Gold ore. 291
16. Bost, A. W., Bost's Mills. Gold ore. 291
17. Bost, Charles, Mt. Pleasant. Gold ore. 291
18. Bost, Mr., Maiden Station. Magnetite. 291
19. Bowman, David, Bakersville. Oligoclase; beryl; halloysite. 291
20. Blackwelder, J., Catawba Station. Magnetite. 291
21. Blackwell, D. A., Alexander. Massive and fibrous serpentine and magnetite. 291
22. Blevins, D., Piney Creek. Magnetite. 291
23. Blocker, O. H., Old Fort. Pyrites. 291
24. Blue Wing Copper Company, Blue Wing. Bornite. 291
25. Brewster, James B., New York, N. Y. Gold ore. 291
26. Brittain, H. S., Murphy. Limonite. 291
27. Bruner, T. K., Raleigh. Collection of gems and minerals. 291
28. Buck Creek Corundum Company, Shooting Creek. Collection of minerals. 290
29. Buckley, William F., New York. Gold ore. 291
30. Butler, Dr., Magnetic City. Limonite. 291
31. Carl, J. M., Concord. Gold and silver ore. 291
32. Carolina Sulphuric Acid Company, Long Creek. Pyrites. 291
33. Carson, S. M., Nathan's Creek. Chalcopyrite. 291
34. Cates, B. S., Dry's Mills. Gold ore. 291
35. Cawson, J. H., Charlotte. Gold ore. 291
36. Coffey, T., Boone. Martite. 291
37. Concord Mining Company, Concord. Gold ore. 291
38. Conrad Hill Mining Company, Lexington. Chalcopyrite. 291
39. Cooke, Mr., Lenoir. Martite. 291
40. Cooper, J. W., Murphy. Limonite. 291
41. Couder, Eli, Indian Trail. Gold ore. 291
42. Cowan, S. A., Port Chester, N. Y. Gold ore. 291
43. Cowan, S. A., Silver Hill. Silver ore. 291
44. Clayton, James E., & Co., Baltimore, Md. Gold ore. 291
45. Clegg Copper Company, Lockville. Chalcopyrite; malachite. 291
46. Cranberry Iron & Coal Co., Cranberry. Magnetite ores. 291
47. Cross, J. M., Fairmont. Gold ore. 291
48. Crowell, M. E., Indian Trail. Gold ore. 291
49. Curtis, J., Patterson. Magnetite. 291
50. Davis, J. A., & Son, Port Deposit, Md. Cassiterite. 291
51. Deak Mica Mining Company, Spruce Pine. Allanite. 291
52. Deal, J. A., Franklin. Garnets, sapphires. 291
53. Deal & Stoner, Franklin. Garnet gems. 291
54. Demming, H. C., Harrisburg, Pa. Collection of cut gems from McDowell County. 291
55. Derr, Andy, Iron Station. Magnetite. 291
56. Dixon, J. A., Weaver's Ford. Chalcopyrite. 291
57. Dougherty, D. B., Boone. Red hematite. 291
58. Duffee Mine Company, Charlotte. Gold ore. 291
59. Eames, R., Jr., Gold Hill. Gold ore. 291
60. Eames, R., Jr., Salisbury. Gold and silver ores. 291
61. Eames, R. M., Salisbury. Gold ore. 291
62. Elk Knob Mine, Elk Cross Roads. Chalcopyrite, pyrrhotite. 291
63. Eller, E., Craven. Gold ore. 291
64. English, Isaac, Spruce Pine. Beryl, biotite. 291
65. Fagg, Isaac, Danbury. Magnetite. 291
66. Farthing, J. K., Patterson. Titaniferous iron ore. 291
67. Field, A. M., Ashville. Collection of cut gems. 291
68. Finch, J. W., & Co., Lexington. Gold and silver ore. 291
69. Fitzgerald, J. J., Hot Springs. Limonite and manganese ore. 291

DEPARTMENT E.—MINES, MINING AND METALLURGY.

70. Ford, Dr., Hickory. Limonite. 291
71. Francis, R., Piney Creek. Magnetite. 291
72. Fuller, A., Jones' Mine. Gold ore. 291
73. Fuller, D. R., Jones' Mine. Gold ore. 291
74. Furr, Eva, Georgeville. Gold ore. 291
75. Furr, S., Concord. Gold ore. 291
76. Gap Creek Mine Company, Gap Creek. Barite, malachite, chalcopryrite, etc. 291
77. Garland, Charles, Bad Creek. Magnetite. 291
78. Genth, F. A., Jr., Philadelphia, Pa. Collection of minerals. 290
79. Gouge, Joel, Rock Creek. Magnetite. 291
80. Graham, W. A., Iron Station. Magnetite. 291
81. Grayboal, J., Lansing. Manganiferous iron ore. 291
82. Gwyn, James, Banner's Elk. Red hematite. 291
83. Ham, Thomas, Jefferson. Magnetite. 291
84. Hanks, Mr., Murphy. Limonite. 291
85. Harris, C. W., Cid. Gold ore. 291
86. Harris, T. C., Raleigh. Collection of minerals and ores. 291
87. Harris, T. F., Thomasville. Gold ore. 291
88. Heck, J. M., Alexander. Magnetite. 291
89. Heck, J. M., Danbury. Magnetite. 291
90. Hedrick, M. L., Silver Hill. Gold ore. 291
91. Heiling Bros., Salisbury. Gold ore. 291
92. Hepler, R. T., Cid. Gold ore. 291
93. Higdon, William, Franklin. Titaniferous magnetite. 291
94. Hitchcock, Mrs., Murphy. Limonite. 291
95. Hogsed, Samuel, Elf. Zoisite and albite with corundum in crysolite. 291
96. Hoke, R. F., Raleigh. Martite. 291
97. Holmes, J. A., Raleigh. Gold, silver and iron ores, etc. 291
98. Holmes, R. J., & Co., Salisbury. Gold ore. 291
99. Honeycut, D. W., Gold Hill. Gold ore. 291
100. Hoover Hill Company. Bush Hill. Gold ore. 291
101. Houser, H. Y., Lincolnton. Manganese ore. 291
102. Hughes, Irwin, Rock Creek. Magnetite. 291
103. Huskins, John, Murphy. Manganese ore. 291
104. Isenhour, George W., Gold Hill. Gold ore. 291
105. Isenhour, H. M., Gold Hill. Gold ore. 291
106. Jones, W. O., High Point. Gold ore. 291
107. Jones, W. P., Marion. Aqua marines; emeralds; smoky quartz. 291
108. Justice, John, Spear. Red hematite. 291
109. Keinath, W. M., Concord. Gold ore. 291
110. Kelly James, Mocksville. Titaniferous magnetite. 291
111. Kessler, J. W., Garfield P. O. Gold ore. 291
112. King's Mountain Mining Company, King's Mountain Station. Gold ore. 291
113. Klutz & Peck, Dry's Mill. Silver ore. 291
114. Laurence, David, Boone. Chromic iron ore. 291
115. Ledoux, A. R., New York, N. Y. Cassiterite. 291
116. Lewis, L. L. V., Thomasville. Gold ore. 291
117. Link, Mr., Iron Station. Magnetite. 291
118. Lobdell Car Wheel Company, Lockville. Magnetite; specular hematite. 291
119. Long Creek Gold Mining Company, Long Creek. Gold ore. 291
120. Lucas, H. S., Cullasaja. Emeralds; rubies; sapphires. 291
121. Lyles, J., Indian Trail. Gold ore. 291
122. Mann, Charles G., Thomasville. Gold ore. 291
123. Marion Bullion and Mining Company, Harrisburg, Pa. Collection of minerals and gems. 291
124. Mauney, E., Gold Hill. Gold ore. 291
125. Mauney, E. H., & Co., Gold Hill. Gold ore. 291
126. McAden, Mr., Murphy. Limonite. 291
127. McCandless, N. B., Salisbury. Gold ore. 291
128. McCarter, G., Helton. Titaniferous iron ore. 291
129. McClure, Mrs., Iron Station. Magnetite. 291
130. McReeves, G., Sparta. Manganese ore. 291
131. Miller, C. A., Eli. Gold and silver ores. 291
132. Mills, J. C., Brindletown. Native gold. 291
133. Molesworth & Keating, Catawba. Gold ore. 291
134. Moody, Arthur, Bakersville. Hyalite; foliated talc; anthophyllite. 291
135. Mooney, Mr., Murphy. Limonite. 291
136. Muffy, J. R., & Co., Philadelphia, Pa. Gold ore. 291
137. Nelson, Lee, Danbury. Magnetite. 291
138. Nelson, William, Danbury. Magnetite. 291
139. New Gold Hill Company, Gold Hill. Gold ore. 291
140. Newman, J. J., Salisbury. Gold ore. 291
141. North Carolina Iron & Steel Co., Ore Hill. Limonite. 291
142. North State Mining Company, Crumpler. Magnetite. 291
143. Oddy, Thomas, Salisbury. Silver ore. 290
144. Oliver & Springs, Charlotte. Pyrites. 291
145. Ore Knob Copper Company, Ore Knob. Collection of minerals. 290
146. Parker Gold Mining Company, Bilesville. Gold ore. 291

UNITED STATES.

147. Parker, Mrs., Bakersville. Titaniferous magnetite. 291
 148. Parker, M. S., New London. Gold ore. 291
 149. Parton, George, Burningtown. Manganes ore and limonite. 291
 150. Peed, Martha, Stagville. Red hematite. 291
 151. Pennington, C., Sturgill. Magnetite. 291
 152. Peters, J. F., Silver Hill. Gold ore. 291
 153. Plumer, J. R., & Co., Jones' Mine. Gold ore. 291
 154. Price, J. M., Indian Trail. Gold ore. 291
 155. Pugh, J. L., Piney Creek. Magnetite. 291
 156. Pugh, Lee, Piney Creek. Magnetite. 291
 157. Quikel, C., Lincolnton. Limonite. 291
 158. Raker, W., Seth. Magnetite; specular hematite. 291
 159. Ray, Garrett D., Burnsville. Collection of minerals. 290
 160. Ray, Garrett L., Burnsville. Titaniferous, magnetite and chromic iron ore. 291
 161. Reading, A. H., Cedar Falls. Gold ore. 291
 162. Reimer Mining Company, Salisbury. Gold ore. 291
 163. Reynolds, J. R. & A. D., Winston. Magnetite. 291
 164. Ritchie, Thomas, Jughtown. Limonite. 291
 165. Roan Mountain Iron & Steel Co., Magnetic City. Magnetite; red hematite. 291
 166. Robertson, W. A., Price's Creek. Chromic iron ore. 291
 167. Russell Mining Company, Glen Brook. Gold ore. 291
 168. Seacrest, L. M., Indian Trail. Gold and silver ores. 291
 169. Sharp, Mrs., Murphy. Limonite. 291
 170. Shepard, Mr., Hickory. Magnetite. 291
 171. Silver Valley Mining Company, Thomasville. Silver ore. 291
 172. Simmons, Thomas, Brown Mountain. Magnetite. 291
 173. Smith, A. V. S., Charlotte. Gold ore. 291
 174. Smith, C. D., Franklin. Beryls, garnets, rubies, quartz. 291
 175. Snow, George H., Raleigh. Agalmatolite. 291
 176. Starus, A. F., Indian Trail. Gold ore. 291
 177. Stevenson, J. A. D., Statesville. Collection of gems and minerals. 291
 178. Stewart, J., Lansing. Magnetite. 291
 179. Stiles, A. J., Franklin. Red hematite. 291
 180. Sweet, W. A., Syracuse, N. Y. Gold ore. 291
 181. Tarbell, S. H., Indian Trail. Gold ore. 291
 182. Theis, A., Concord. Gold ore. 291
 183. Thing, C. G., Indian Trail. Gold ore. 291
 184. Toe River Land & Mining Co., Plumtree. Magnetite. 291
 185. Tolliver, C., Nathan's Creek. Chalcocopyrite. 291
 186. Tomlinson, J. M., Bush Hill. Gold ore. 291
 187. Tomatla Company, Murphy. Limonite. 291
 188. Tucker, E., Concord. Gold ore. 291
 189. Upchurch, W. G., Raleigh. Pyrites. 291
 190. Valley River Company, Murphy. Limonite. 291
 191. Vielo, C. G., Salisbury. Garnets and beryls. 291
 192. Wade, C. C., Queen. Gold ore. 291
 193. Waldrop, Alex, Franklin. Titaniferous magnetite. 291
 194. Washburn, Dr., Murphy. Limonite. 291
 195. Weaver, Baker, Jefferson. Chalcocopyrite. 291
 196. Weaver, James, Stone Hill. Collection of minerals. 291
 197. Weed, J. W., & Co., New York, N. Y. Gold ore. 291
 198. Wells, F. M., Hot Springs. Limonite. 291
 199. Whitehead, J. W., Banner's Elk. Red hematite. 291
 200. Widenhouse Mining Company, Georgeville. Gold ore. 291
 201. Wilcox, J. O., Dresden. Magnetite. 291
 202. Wilcox, Joseph, Philadelphia. Collection of minerals. 291
 203. Wild, Mr., Webster. Genthite. 291
 204. Wilkes, John, Charlotte. Gold ore. 291
 205. Williams, A. J., Indian Trail. Gold ore. 291
 206. Williams, John, Maiden Station. Magnetite. 291
 207. Williams, Joseph, & Co., Baltimore, Md. Gold ore. 291
 208. Williams, T. J., Rockford. Magnetite. 291
 209. Wright, Mr., Murphy. Limonite. 291
 210. Wyatt, J., Crumpler. Red hematite. 291
 211. Yandel, William, Stouts. Gold ore. 291
 212. Yoke, A. J., Grafton. Gold ore. 291
 213. Young, Julius, Micaville. Kyanite. 291
 214. Young, Willian, Helton. Titaniferous iron ore. 291
 215. Yountz, J. L., Indian Trail. Gold and silver ores. 291
- GROUP 43.**
216. Egypt Coal Company, Egypt. Semi-bituminous coal and coke. 292
 217. Holmes, J. A., Raleigh. Bituminous and semi-anthracite coal. 292
- GROUP 44.**
218. Adams, Jesse, Hutchinson's Store. Serpentine. 296
 219. Andrews, A. B., Asheville. Biotite granite. 296
 220. Andrews, Alex, Andrews. Blue-gray marble. 296

DEPARTMENT E.—MINES, MINING AND METALLURGY.

221. Avery, Mr., Morganton. Hornblende gneiss. 296
222. Barefoot, George, Wilson. Porphyritic granite. 296
223. Basinger, J. J., Salisbury. Pink-gray granite. 296
224. Battle, W. H., Lilesville. Biotite and porphyritic granite. 296
225. Beal, William, Murphy. Crystalline marble. 296
226. Belmont Springs Company, Charlotte. Quartz-porphyr. 296
227. Blackwell, D. A., Alexander. Serpentine. 296
228. Boyden, John, Salisbury. Gray and pink granite. 296
229. Carolina Brownstone Company, Sanford. Brown sandstone. 296
230. Cooke, Chas. M., Louisburg. Biotite granite. 296
231. Duke, B. L., Durham. Brown sandstone. 296
232. Durham & Elliott, Charlotte. Granites; porphyry; gneiss; sandstones. 296
233. Egypt Coal Company, Egypt. Reddish brown sandstone. 296
234. Fleming, J. M., Rolesville. Biotite granite. 296
235. French Bros., Rocky Point. Cellular limestone. 296
236. Fritt, Mrs., Lexington. Biotite granite. 296
237. Graham, A. W., Hillsboro. Pink granite. 296
238. Graham, T., Charlotte. Hornblende, biotite-granite. 296
239. Greystone Granite Company, Greystone. Biotite granite. 296
240. Hairston, Frank, Salisbury. Orbicular granite. 296
241. Harper, G. W., Hickory. Biotite gneiss. 296
242. Hayes, Jefferson, Tomotla. White marble. 296
243. Hendricks, C., Shelby. Biotite gneiss. 296
244. Hickerson, C. N., Andrews. Steatite. 296
245. Holland & Paysour, Gastonia. Biotite granite. 296
246. Holmes, J. A., Raleigh. Biotitic-granitic-gneiss. 296
247. Hope, C. L., Garibaldi. Biotite granite. 296
248. Isley, C., Burlington. Biotite granite. 296
249. Ives, Geo. N., Newbern. Shell-limestone. 296
250. Kinsey, A. G., Kinsey. Marble and steatite. 296
251. Leazer, A., Mooresville. Quartzite gneiss. 296
252. Ledbetter Bros., Rockingham. Porphyritic granite. 296
253. Linehan, P., Toisnot. Biotite gneiss. 296
254. Linehan, P. & Son, Greystone. Gray sandstone. 296
255. Linehan & Son, Wadesboro. Gray sandstone. 296
256. Linster, J., Barium Springs. Biotite gneiss. 296
257. McBee, V., Old Fort. Porphyritic gneiss. 296
258. McNealy, Robert, Mooresville. Mot-tled gneiss. 296
259. Means, P. B., Concord. Pink gray granite. 296
260. Mt. Airy Granite Company, Mt Airy. Biotite granite. 296
261. Nantahala Talc & Marble Co., Hewitt. Marbles. 296
262. North Carolina Slate Company, Albe-marle. Roofing slate. 296
263. Rackle, William, Sanford. Reddish brown sandstone. 296
264. Richard & Hewitt, Hewitt. Marbles and steatite. 296
265. Rogers, R. I., Durham. Brown and gray sandstone. 296
266. Smith, J. S., Warrenton. Biotite granite. 296
267. Spainhour, J. M., Lenoir. Black serpentine. 296
268. Vance, R. B., Alexander. Horn-blende-biotite-gneiss. 296
269. Wade, C. C., Queen. Roofing slate. 296
270. Wadesboro Brownstone Company, Wadesboro. Chocolate and gray sandstone. 296
271. Whitaker, S., Andrews. Blue gray marble. 296
272. Williams, John, Oxford. Biotite granite. 296
273. Wyatt, J. T., Salisbury. Quartzose and granite. 296
274. Young, T., Andrews. Checked gray marble. 296

GROUP 45.

275. Adams, W. J., Carthage. Millstone grit. 297
276. American Museum of Natural History, New York. Sapphire corundum. 297
277. Buck Creek Corundum Company, Shooting Creek. Corundum. 297
278. Cardon, G. B., Elf. Corundum. 297
279. Carter Corundum Company, Democrat. Corundum, albite. 297
280. Claywill, R. T., Morganton. Massive and pulverized garnet. 297
281. Deal, J. A., Franklin. Corundum crystals. 297
282. Deal & Stoner, Franklin. Corundum crystals. 297
283. Dunn, B. R., Wilmington. White quartz sand. 297
284. Genth, F. A., Jr., Philadelphia, Pa. Corundum, and its products. 297
285. Harris, T. C., Raleigh. Corundum. 297
286. Hogsed, Samuel, Elf. Corundum; corundum gravel; albite. 297
287. Holmes, J. A., Raleigh. Corundum. 297
288. Hughes, W. H. H., Webster. Bronzite and corundum. 297
289. Hyams, Chas. W., Statesville. Pink corundum. 297
290. Lewis, W. C., Goldsboro. White quartz sand. 297
291. Lucas, H. S., Cullasaja. Topaz, corundum, corundum sand. 297
292. Patton, Lou'sa, E'f. Corundum. 297

UNITED STATES.

293. Sapphire Valley Mining Company, Jackson county. Corundum and its use. 297
 294. Smith, C. D., Franklin. Corundum. 297
 295. Stevenson, J. A. D., Statesville. Black corundum. 297
 296. Stroud, W. F., Chapel Hill. Whetstone. 297
 297. Wilcox, Joseph, Philadelphia, Pa. Corundum. 297
 298. Wyatt, J. T., Salisbury. Millstone grit. 297

GROUP 46.

299. Adams, Shepards, Polkton. Kaolin. 304
 300. Avery, W. W., Plumbtree. a Mica. 305
 b Asbestos. 307
 301. Beall, William, Murphy. Fire clay. 304
 302. Benbow, D. W. C., Greensboro. Soapstone. 305
 303. Blue Ridge Mica Company, Waynesville. Muscovite mica. 305
 304. Bowers Bros., Franklin. Muscovite mica and crystals. 305
 305. Bowman, David, Bakersville. Halloysite. 304
 306. Bryson Mine Company, Franklin. Muscovite mica. 305
 307. Carolina Clay Company, Dillsboro. Kaolin. 304
 308. Cloudland Mica Company, Bakersville. Albite. 305
 309. Costner, R. E., Lincolnton. Halloysite. 304
 310. English, Isaac, Spruce Pine. Orthoclase; albite feldspar. 304
 311. Gash, Mr., Brevard. Kaolin. 304
 312. Holton, A. S., High Point. Kaolin. 304
 313. Hatch, W. N., Ashville. Kaolin. 304
 314. Hawkins, Colin, Raleigh. Muscovite mica. 305
 315. Hoke, R. F., Raleigh. Potters' clay. 304
 316. Holmes, J. A., Raleigh. Graphite. 298
 317. Joyner, J. S., Franklinton. Kaolin. 304
 318. Kelly, Mr., Harper's Cross Roads. Kaolin. 304
 319. Kinsey, A. G., Kinsey. Talc, massive and pulverized. 305
 320. Leonard, Charles S., Fentress. Kaolin. 304

321. Margarite Mining Company, Plumbtree. Scrap mica. 305
 322. Mt. Mitchell Mining Company, Knoxville. Muscovite and ground mica. 305
 323. O'Neill, J. W., Clayton. Kaolin. 304
 324. Penniman Bros., Asheville. Fire clay. 304
 325. Ray, Garrett D., Burnsville. Maic. and associated minerals. 305
 326. Ricard & Hewitt, Hewitt. Talc, massive and pulverized. 305
 327. Rorison, J. L., Bakersville. Muscovite mica. 305
 328. Sheldon, A. H., Lincolnton. Kaolin. 304
 329. Smith, C. D., Franklin. Kaolin. 304
 330. Snow, George H., Raleigh. Pyrophyllite. 305
 331. Sprunt, Alex., & Sons, Spout Springs. Potters' and fire clays. 304
 332. Van Lindley, J., Pomona. Potters', terra cotta and fire clays. 304

GROUP 48.

333. Genth, F. A., Jr., Philadelphia. Sulphur. 317

GROUP 49.

334. Cranberry Iron & Coal Co., Cranberry. Pig iron. 324
 335. Pasley, J. M., Crumpler. Hammered forge iron. 334

GROUP 51.

336. Clayton, James E., & Co., Baltimore, Md. Copper ore. 340
 337. Cross, J. M., Fairmont. Copper ore. 340
 338. Eames, R., Jr., Salisbury. Copper ore. 340
 339. Holmes, J. A., Raleigh. Native copper. 339
 340. Maxwell, W. D., Shiloh. Copper ore. 340
 341. Miller, C. A., Eli. Copper ore. 340
 342. Muffy, J. R., & Co., Philadelphia. Copper ore. 340
 343. New Gold Hill Company, Gold Hill. Copper ore. 340
 344. Ore Knob Copper Company, Ore Knob. Native copper. 339
 345. Weaver, James, Stone Hill. Native copper. 339

GROUP 52.

346. Harris, T. C., Raleigh. Tin ore. 344

OHIO.

GROUP 48.

1. United Salt Co., Cleveland. Salt and process of manufacture. 314

PENNSYLVANIA.

GROUP 42.

1. Andrews, William, Allentown. Man-
ganese ore. 291
2. Burnley, Dr. C. W., Cogan House.
Iron ore. 291
3. Chamberlain, W. B., Montour County.
Ores. 291
4. Carnegie Steel Co., Pittsburg. Iron
ore. 291
5. Clymer, E. T., Allentown. Iron ore. 291
6. Cornwall Ore Bank Co., Cornwall.
Iron ore. 291
7. Double, Captain Charles, Gap Station.
Nickel ore, millerite. 291
8. Duncan, Peter S., Ore Hill. Iron ore.
291
9. Durham Iron Works, Riegelsville.
Iron ore. 291
10. Gorham, Clay. Brown limonite. 291
11. Guffy, J. M., Pittsburg. Oil well bor-
ings. 291
12. Hartzell, H. K., Philadelphia. Iron
ore. 291
13. Hillside Coal & Iron Co., Scranton.
Diamond drill core. 291
14. Horn, George, Cogan House. Block
fossil iron ore. 291
15. Howell, Dr. W. M. Iron ore. 291
16. Isabella Furnace, Wyebrooke. Iron
ore. 291
17. Meyer, A., Cogan House. Iron ore. 291
18. McClarren, J., Cogan Station. Fossil
iron ore. 291
19. McConnell, E. M., New Castle. Iron
ore. 291
20. McCoy & Linn, Milesburg. Hematite
ore. 291
21. Moul, Jacob H., Iron ore. 291
22. O'Hart, Solomon, Cogan House.
Limonite. 291
23. Oil Well Supply Co., Pittsburg. Oil
well borings. 291
24. Phoenix Iron Works, Phoenixville.
Iron ore. 291
25. Plank, Dr. Heber L., Reading. Cab-
inet of minerals. 290
26. Potts, Wm. M., Wyebrook. Iron ore.
291
27. Pottstown Iron Co., Pottstown. Iron
ore. 291
28. Schoenfeld, Dr. John, Reading.
a Cabinet of minerals. 290
b Ores and minerals. 291
29. Scotia Ore Mines, Scotia. Iron ore. 291
30. Shafer, George, Cogan Station. Red
hematite ore. 291
31. Sharples, Elizabeth, Media. Minerals.
291
32. Smith, A. M., Beaver Springs. Iron
ore. 291

GROUP 43.

33. Atlantic Refining Co. Products from
distillation of tar. 293

34. Berwind White Coal Mining Co.,
Horatis. Bituminous coal. 292
35. Blight, I. O., Towanda. Coal. 292
36. Cooke, John W., Bellefonte. Bitum-
inous coal. 292
37. Cox, E. B., Drifton. Coal. 292
38. Dodson Coal Co., Audenried. Coal.
292
39. East Bangor Consolidated Stone Co.
Anthracite coal. 292
40. Eclipse Lubricating Oil Works. Pe-
troleum products. 294
41. Frick, H. C., Pittsburg. Bituminous
coal. 292
42. Hamilton Cannel Coal Co., Boyer's.
Cannel coal. 292
43. Harvey Coal Mining Co., Philadelphia.
Bituminous coal. 292
44. Kettle Creek Coal Co., Bitumen.
Bituminous coal. 292
45. Lehigh Valley Coal Co., Lehigh. Coal.
292
46. Lungren, Charles, Antrim. Bitumin-
ous coal. 292
47. Monongahela Gas Coal Co., Pitts-
burg. Coal. 292
48. Pittsburg Consolidated Coal Co.,
Pittsburg. Bituminous coal. 292
49. Reading Anthracite Compressed Fuel
Co., Mahanoy City. Compressed fuel. 292
50. Reading Iron & Coal Co., Philadelphia.
Specimens of coal. 292
51. Robbins, Francis L., Pittsburg.
Bituminous coal. 292
52. Rockhill Iron & Coal Co., Rockhill
Furnace. Coke. 292
53. Shaner Gas Coal Co., Pittsburg. Bitum-
inous coal. 292
54. Snow Shoe Mining Co., Cherry Run.
Coal. 292
55. Standard Coal and Coke Co., Williams-
port. Coal and coke. 292
56. State Line & Sullivan County R. R.
Co., Towanda. Coal. 292
57. Stevens, Morton, Rockhill Furnace.
Coke. 292
58. Walker, R. J. C., Williamsport. Coal.
292

GROUP 44.

59. Acme Lime Co., Avondale. Lime-
stone. 296
60. Allegheny Valley R. R. Co., Pittsburg.
Sandstone. 296
61. Amy & Co., Greenville. Building
stone. 296
62. Barr, Millard, Lapps. Building stone.
296
63. Big Bed Slate Quarry Co., Steinsville.
Slate. 296
64. Bittinger & Eberly, Hanover. Lime-
stone. 296
65. Blemly, Christian, Lycoming. Mount-
ain sand stone. 296

UNITED STATES.

66. Blue Valley Slate Co., Slatington. Slate. 296
67. Booth & Flinn, Pittsburg. Granite. 296
68. Boyer, J. L., Columbia. Limestone. 296
69. Brinkley, D. L., Adamstown. Building stone. 296
70. Brookside Club, Williamsport. Black marble. 296
71. Carlucci, Frank, Scranton. Blue stone. 296
72. Carson, Thomas, Layton's Station. Building stone. 296
73. Conshohocken Stone Quarry Co., Philadelphia. Building stone. 296
74. Consolidated Stone and Mining Co., Pittsburg. Sandstone. 296
75. Corson, G. & W. H., Plymouth Meeting. Limestone. 296
76. Crown Slate Co., Portland. Slate. 296
77. Davis & Harris, Rock Point. Building stone. 296
78. DeHuff, A. G., Lebanon. Building stone. 296
79. Deppen, S. R., Robesonia. Limestone. 296
80. Diemer, A., Spring City. Building stone. 296
81. Dlioher, John D., Kutztown. Building stone. 296
82. Duespohl, F., Pollock. Building stone. 296
83. Eberly & Bittinger, Hanover. Limestone. 296
84. Eisenbrown, P. F., Sons & Co., Reading. Granite. 296
85. Evans, Edward W., & Co., West Bangor. Slate. 296
86. Feeney, John, Walker's Mills. Building stone. 296
87. Fisher & Son, Perkiomenville. Building stone. 296
88. Globe Hard Vein Slate Co., Portland. Slate. 296
89. Griggs, Daniel, Montoursville. Building stone. 296
90. Gwinner, Fred, Allegheny City. Building stone. 296
91. Harris & Son, A. J. Building stone. 296
92. Hartman, Joseph, & Son, New Galilee. Sandstone. 296
93. Hendricks, Winfield, Schuylkill Haven. Building stone. 296
94. Hibbard, Jesse, Lima. Building stone. 296
95. Hower, F. M., Danielsville. Slate. 296
96. Hummelstown Brown Stone Co., Hummelstown. Brownstone. 296
97. Imperial Slate Co., Wind Gap. Slate. 296
98. Johnson, R. H., Wayne. Building stone. 296
99. Johnston, Samuel J., Morton. Building stone. 296
100. Jones, R. L., & Co., Delta. Slate. 296
101. Jones, W. W., Belfast. Slate. 296
102. Kerr Bros., Wrightsville. Limestone. 296
103. Knauer, Davis, St. Peters. Granite. 296
104. Knox, J. P. & E. A., Allegheny City. Building stone. 296
105. Leathers, R. C., Mt. Eagle. Building stone. 296
106. Leiby, Isaac, Virginsville. Building stone. 296
107. Leiper & Lewis, Chester. Granite. 296
108. Lightner, Nathaniel, Gettysburg. Granite. 296
109. Lobb & Sons, William, Pen Argyl. Slate. 296
110. Mayer, Dr. J. H., Willow Street. Building stone. 296
111. McIlvain & Bro., Bellemonte. Limestone. 296
112. McIlvain, George D., Bellemonte. Limestone. 296
113. McKenna, D., Slatington. Slate. 296
114. McManus & Reilly, Philadelphia. Building stone. 296
115. McSpadden, J. C., Rockwood. Building stone. 296
116. McWilliams, George, Canonsburg. Building stone. 296
117. Meyer, A., Cogan House. Pencil slate. 296
118. Morris, E. S., Quarry Glen. Blue stone. 296
119. Motsch, Alban, Erie. Building stone. 296
120. National Cement Co., Pittsburg. Sandstone. 296
121. Nice, Eugene F., Philadelphia. Building stone. 296
122. Old Bangor Slate Co., Bethlehem. Pavilion of slate. 296
123. Oliver, George W., Philadelphia. Granite. 296
124. Oliver, Paul A., Oliver's Mills. Building stone. 296
125. Peach Bottom Slate Producers' Association, Delta. Peach Bottom slate. 296
126. Pennsylvania Granite Block Co., St. Peters. Building stone. 296
127. Pittsburg Stone Co., Pittsburg. Building stone. 296
128. Platt, C. C., Slate Run. Sandstone. 296
129. Rockhill Iron & Coal Co., Rockhill Furnace. Limestone. 296
130. Rothenberger, D. & L., Sigmund. Limestone. 296
131. Scheyer & Liess, King of Prussia. Slab of marble. 296
132. Sebring, H., & Sons, Vanport. Building stone. 296
133. Serger, Frank, Erie. Building stone. 296
134. Smith, James B., Reedsville. Limestone. 296
135. Snyder Bros., Curwensville. Sandstone. 296
136. Soisson & Kilpatrick, Connelville. Building stone. 296
137. Spahr, H. R. Building stone. 296
138. Squires, R. S., Nicholson. Building stone. 296
139. Stark, H. F., Greensburg. Bull rock. 296
140. Steuempfle, David, Williamsport. Building stone. 296

DEPARTMENT E.—MINES, MINING AND METALLURGY.

141. Stevens, Morton, Rockhill Furnace. Limestone. 296
 142. Swatara Brownstone Co., Lebanon. Building stone, sandstone. 296
 143. Taylor, David H., Freeport. Building stone. 296
 144. Tiffany, H. D., Nicholson. Building stone. 296
 145. Walker, R. J. C., Williamsport. Building stone, pencil slate. 296
 146. Walker's Mills Quarry Co., Walker's Mills. Building stone. 296
 147. West, George, Picture Rock. Building stone. 296
 148. Wieland, George R., State College. Building stone. 296
 149. Williams, David, Steinsville. Slate. 296
 150. Wilson Bros. & Co., Ellwood City. Building stone. 296
 151. Wissler, Benjamin, Lincoln. Mill stones. 296

GROUP 45.

152. Abrasive Material Co., Philadelphia. Corundum. 297
 153. Macklin & Stevenson, McVeytown. Sand. 297
 154. Page, Harlan, Philadelphia. Corundum. 297
 155. Peck, James D., Exton. Sand. 297
 156. Speer White Sand Co., Pittsburg. Sand. 297

GROUP 46.

157. American Plumbago Mining Co., Reading. Graphite. 298
 158. Bean, Mrs. M. J., Pawling P. O. Sand. 304
 159. Beaver Falls Art Tile Co., Beaver Falls. Tile. 304
 160. Beech Creek Fire Brick Co., Beech Creek. Fire clay and brick. 304
 161. Brady's Run Fire Clay Co., West Bridgewater. Fire clay and brick. 304
 162. Brandywine Summit Kaolin and Feldspar Co., Philadelphia. Feldspar, kaolin, chinaware. 304
 163. Cambria Fire Brick Co., Figert. Fire clay and brick. 304
 164. Clearfield Fire Brick Co., Clearfield. Fire clay and brick. 304
 165. Cope, Wilmer & Bro., Lincoln. Pottery clay. 304
 166. Crawford, Thomas, Elam. Fire clay and brick. 304
 167. Dixon Woods Co., Pittsburg. Fire clay. 304
 168. Ducan, Peter S., Ore Hill. Sand and fire clay. 304
 169. Duespohl, F., Pollock.
 a Fire clay. 304
 b Fire stone. 305
 170. Dull, C. P., McVeytown. Sand. 304
 171. Enterprise Sand Co., McVeytown. Sand. 304
 172. Fairchance Fire Brick Co., Fair Chance. Fire brick. 304
 173. Fair Haven Fire Brick Co., Fair Haven. Fire clay. 304
 174. Fallston Fire Clay Co., Fallston. Brick. 304

175. Fredericks, Munroe & Co., Farrandsville. Clay and brick. 304
 176. Griffin Enameled Brick Co. Kaolin and brick. 304
 177. Harbison & Walker, Pittsburg. Fire clay and brick. 304
 178. Haws, A. J., & Son, Johnstown. Fire clay. 304
 179. Jones, David, Philadelphia. Graphite. 298
 180. Leathers, R. C., Mt. Eagle. Sand. 304
 181. Lock Haven Clay Works, Lock Haven. Clay and brick. 304
 182. Macbeth, George A., Co., Pittsburg. Manufacture of glass. 304
 183. Melick, Elmer E., Retort. Fire clay and brick. 304
 184. Mill Hall Brick Works, Lock Haven. Shale and brick. 304
 185. Moll, B. H., Alburtis. Paper clay and fire sand. 304
 186. Moyer, A. C., & Co., Altoona. Fire clay and brick. 304
 187. National Brick & Tile Co., Bradford. Shale and brick. 304
 188. Peerless Brick Co., Philadelphia. Clay and brick. 304
 189. Penn Plumbago Co., Pikeland. Graphite. 298
 190. Queen's Run Fire Brick Co., Lock Haven. Fire clay and brick. 304
 191. Renovo Fire Brick & Clay Co., Philadelphia. Fire clay and products. 304
 192. Rhoads, William, Edge Hill. Fire sand and stone. 305
 193. Riddell, C. B., Larry's Creek. Clay. 304
 194. Savage Fire Brick Co., Keystone Junction. Clay and brick. 304
 195. Schwartzbaugh, E., Codorus. Clay and pottery. 304
 196. Soisson, Joseph, & Sons, Connellsville. Fire clay and brick. 304
 197. Star Encaustic Tile Co., Pittsburg. Tile manufacture. 304
 198. Uniontown Firestone Co., Hopewood. Fire stone. 305
 199. Welch, Gloninger & Maxwell, Pittsburg. Fire clay and brick. 304
 200. Westmoreland Fire Brick Co., Pittsburg. Fire clay and brick. 304
 201. Whillidin Pottery Co., Philadelphia. Clay and pottery. 304
 202. Williams, C. K., & Co., Easton.
 a Silica, white clay. 304
 b Soapstone. 305
 c Asbestos. 307
 203. Woodland Fire Brick Co., Woodland. Fire clay and brick. 304

GROUP 47.

204. American Cement Co., Egypt. Cement. 309
 205. Chronister, C. R., New Oxford. Lime and limestone. 309
 206. Coplay Cement Co., Allentown. Manufacture of cement. 309
 207. McAteer, H. J., Alexandria. Limestone. 309
 208. Milroy Cement Co., Milroy. Manufacture of cement. 309

UNITED STATES.

GROUP 48.

209. Erwin, Henry, Bethlehem. Mineral paints. 319
 210. Lehigh Metallic Paint Co., Alburdis. Mineral paints. 319
 211. Long & Sor, De Long. Ochres. 319
 212. Luzerne Ochre M'fg Co., Moosehead. Ochres. 319
 213. Nice, Eugene F., Philadelphia. Ochres and pigments. 319
 214. Pennsylvania Paint & Ochre Co., Allentown. Pigments. 319
 215. Rutherford & Barclay, Philadelphia. Mineral paint. 319
 216. Tate, M. C., Allenwood. Mineral paints. 319
 217. Williams, C. K., & Co., Easton. Mineral paints. 319

GROUP 49.

218. Boyer, Jerome L., Reading. Iron furnace charge. 322
 219. Lee, R. H., Lewistown.
 a Furnace ore charge, etc. 322
 b Pig iron. 324
 220. Rockhill Iron & Coal Co., Rockhill Furnace.
 a Furnace ore charge, slag. 322
 b Pig iron. 324
 221. Stevens, Morton, Rockhill Furnace. Furnace charges and products. 322

GROUP 50.

222. Pittsburg Reduction Co., Pittsburg. Aluminum. 335

GROUP 51.

223. Doble, Charles. Copper ore. 340
 224. Hoopes, H. A., Harrisburg. Copper ore. 340

GROUP 53.

225. Emmens Metal Co., Youngwood. Nickel and nickel salts. 353
 226. Friedensville Zinc Co., Friedensville. Zinc ore, white zinc, spelter. 347
 227. Lehigh Zinc & Iron Co., South Bethlehem. Production of zinc oxide. 349
 228. Wharton, Joseph, Camden, N. J. Nickel (grain). 353

GROUP 61.

229. Reading Iron & Coal Co., Philadelphia. Mining tools. 381

GROUP 67.

230. Geological survey of Pennsylvania. Maps, charts, etc. 410
 231. Harden, John, Phoenixville. Relief map of mine. 410
 232. Harvey Coal Mining Co., Philadelphia. Maps. 410
 233. Lehman, A. E., Philadelphia. Relief map of mines. 410
 234. Lehman, C. M., Weldon, N. C. Relief map of coal fields. 410
 235. Pennsylvania Board of World's Fair Managers. Relief map of state, etc. 410
 236. Read, Mrs. F. M., Mahanoy City. Carving in coal. 410
 237. Reading Iron & Coal Co., Philadelphia. Model of coal breaker, and coal mine, etc. 410
 238. Wood, John A., Pittsburg. Maps. 410
 239. Butts, E. P., State College. Model of primitive iron furnace. 410

SOUTH CAROLINA.

GROUP 48.

1. Ashley Phosphate Co., Charleston. Phosphate. 320
 2. Bolton Mining Co., Charleston. Land phosphate rock. 320
 3. Beaufort Mining Co., Beaufort. River phosphate rock. 320
 4. Berkeley Phosphate Co., Charleston. Phosphates. 320
 5. Carolina Mining Co., Beaufort. River phosphate rock. 320
 6. Charleston Mining & M'fg Co., Lamb's Land phosphate rock. 320
 7. Chicora Fertilizer Co., Charleston. Phosphates. 320
 8. Coosaw Mining Co., Charleston. River phosphate rock. 320
 9. Drayton Mining Co., Charleston. Land phosphate rock. 320
 10. Edisto Phosphate Co., Charleston. Phosphates. 320

11. Eureka Mining Co., Charleston. Land phosphate rock. 320
 12. Farmers' Mining Co., Beaufort. River phosphate rock. 320
 13. Horse Shoe Mining Co., Ashepool. Land phosphate rock. 320
 14. Imperial Fertilizer Co., Charleston. Phosphates. 320
 15. Magnolia Mining Co., Charleston. Land phosphate rock. 320
 16. Mount Holly Mining Co., Charleston. Land phosphate rock. 320
 17. Royal Fertilizer Co., Charleston. Phosphates. 320
 18. St. Andrews Mining & M'fg Co., Stono. Land phosphate rock. 320
 19. Stono Phosphate Co., Charleston. Phosphates. 320
 20. Wando Phosphate Co., Charleston. Phosphates. 320
 21. Wappoo Mills Co., Charleston. Phosphates. 320

TENNESSEE.

GROUP 42.

- | | | |
|---------------------------------|------|-----|
| 1. Eureka Mine, Harriman. | Iron | |
| ores. | | 291 |
| 2. Walden Ridge Mine, Harriman. | Iron | |
| ores. | | 291 |

GROUP 43.

- | | | |
|-------------------------|-------|-----|
| 3. Byrd Mine, Harriman. | Coal. | 292 |
|-------------------------|-------|-----|

GROUP 44.

- | | | |
|--|--|-----|
| 4. East Tennessee Building Stone Co., | | |
| Harriman. Brown sandstone. | | 296 |
| 5. Standard Marble & Stone Co., Harri- | | |
| man. Marble. | | 296 |

GROUP 46.

- | | | |
|---|--|-----|
| 6. Cleveland Fire Brick Co., Cleveland. | | |
| Clay and bricks. | | 304 |
| 7. Harriman Fire Brick Co., Harriman. | | |
| Fire clay. | | 304 |

UTAH.

GROUP 42.

- | | | |
|---|--|-----|
| 1. Alabama Mine, Ophir Mining Dist. | | |
| Gold, silver and lead ores. | | 291 |
| 2. Alpine Mine, Willard Mining Dist. | | |
| Gold, silver and lead ores. | | 291 |
| 3. Anchor Mine, Park City. Gold, sil- | | |
| ver and lead ores. | | 291 |
| 4. Argenta Mine, Stockton Mining Dist. | | |
| Gold, silver and lead ores. | | 291 |
| 5. Asbestos Mine, Minersville Dist. | | |
| Lead ores. | | 291 |
| 6. Ashley Coal Mines, Ashley Fork Dist. | | |
| Lead and silver ores. | | 291 |
| 7. Baby McKee Mine, Big Cottonwood | | |
| Dist. Gold, silver, lead and zinc ores. | | 291 |
| 8. Barbee Mine, Silver Reef Dist. Gold | | |
| and silver ores. | | 291 |
| 9. Baker Mine, Willard Mining Dist. | | |
| Gold, silver and lead ores. | | 291 |
| 10. Ben Harrison Mine, Big Cottonwood | | |
| Dist. Gold, silver, lead and zinc ores. | | 291 |
| 11. Big Blowout Mine, Cedar City Dist. | | |
| Iron ore. | | 291 |
| 12. Bismuth Mine, Beaver Mining Dist. | | |
| Gold and silver ores. | | 291 |
| 13. Black Jack Mine, Eureka Tintic. | | |
| Gold, silver, lead, zinc and iron ores. | | 291 |
| 14. Bonanza Mine, Ophir Mining Dist. | | |
| Gold, silver, lead and zinc ores. | | 291 |
| 15. Brooklyn Mine, Bingham Canyon. | | |
| Gold, silver, lead and zinc ores. | | 291 |
| 16. Buck Eye Reef Mine, Silver Reef | | |
| Dist. Gold and silver ores. | | 291 |
| 17. Brush Creek Copper Mines, Ashley | | |
| Fork Dist. Lead and silver ores. | | 291 |
| 18. Buckhorn Mine. Fish Springs Mining | | |
| Dist. Gold, silver and lead ores. | | 291 |
| 19. Buckhorn Mine, Ophir Mining District. | | |
| Gold, silver tellurium ores. | | 291 |
| 20. Bullion-Beck Mine, Eureka Tintic. | | |
| Gold, silver, lead, zinc and iron ores. | | 291 |
| 21. Bully Boy Mine, Marysville Mining | | |
| Dist. Gold, silver and lead ores. | | 291 |
| 22. Bunker Hill Mine, Stockton Mining | | |
| Dist. Gold, silver and lead ores. | | 291 |

- | | | |
|---|--|-----|
| 23. California Mine, Park City. Gold, | | |
| silver and lead ores. | | 291 |
| 24. California Mine, Silver Reef Dist. | | |
| Gold and silver ores. | | 291 |
| 25. Calumet Mine, Stockton Mining Dist. | | |
| Gold, silver and lead ores. | | 291 |
| 26. Carissa Mine, Eureka Tintic. Gold, | | |
| silver, lead, zinc and iron ores. | | 291 |
| 27. Carr Fork District. Gold, silver, lead, | | |
| and tellurium ores. | | 291 |
| 28. Cave Mine, Minersville Dist. Lead | | |
| ores. | | 291 |
| 29. Centennial Mine, Eureka Tintic. Gold, | | |
| silver, lead, zinc and iron ores. | | 291 |
| 30. Chicago Mine, Ophir Mining Dist. | | |
| Gold, silver, lead and zinc ores. | | 291 |
| 31. City of Rocks Mine, Little Cotton- | | |
| wood Dist. Gold, silver and lead | | |
| ores. | | 291 |
| 32. Catherine Mine, Stockton Mining | | |
| Dist. Gold, silver and lead ores. | | 291 |
| 33. Climax Mine, Bingham Canyon. Gold, | | |
| silver, lead and zinc ores. | | 291 |
| 34. Copperbuilt Mine, Marysville Mining | | |
| Dist. Gold, silver and lead ores. | | 291 |
| 35. Copper King Mine, Fish Springs Min- | | |
| ing Dist. Gold, silver and lead ores. | | 291 |
| 36. Copperopolis Mine, Eureka Tintic. | | |
| Gold, silver, lead, zinc and iron ores. | | 291 |
| 37. Copper Stain Mine, Lake Side Dist. | | |
| Gold, silver and lead ores. | | 291 |
| 38. Crescent Mine, Park City. Gold, sil- | | |
| ver and lead ores. | | 291 |
| 39. Dalton Mine, Marysville Mining Dis- | | |
| trict. Gold, silver and lead ores. | | 291 |
| 40. Daly Mine, Park City. Gold, Silver | | |
| and lead ores. | | 291 |
| 41. Daly West Mine, Park City. Gold, | | |
| silver and lead ores. | | 291 |
| 42. Deseret Mine, Ophir Mining District. | | |
| Gold, silver, lead and zinc ores. | | 291 |
| 43. Dixie Copper Mines, St. George Dist. | | |
| Gold and silver ores. | | 291 |
| 44. Dragon Mine, Eureka Tintic. Gold, | | |
| silver, lead, zinc and iron ores. | | 291 |

UNITED STATES.

45. Dyer Copper Mine, Ashley Fork Dist. Lead and silver ores. 291
46. Emma Mine, Little Cottonwood Dist. Gold, silver and lead ores. 291
47. Eureka Hills Mine, Eureka Tintic. Gold, silver, lead, zinc and iron ores. 291
48. Flagstaff Mine, Little Cottonwood. Gold, silver and lead ores. 291
49. Glencoe Mine, Park City. Gold, silver and lead ores. 291
50. Great Magnetite Mine, Cedar City Dist. Iron ore. 291
51. Greentree Mine, Little Cottonwood Dist. Gold, silver and lead ores. 291
52. Hematite Mine, Willard Mining Dist. Gold, silver and lead ores. 291
53. Highland Mine, Bingham Canyon. Gold, silver, lead and zinc ores. 291
54. Homestead Mine, Marysville Mining Dist. Gold, silver and lead ores. 291
55. Honarine Mine, Stockton Mining Dist. Gold, silver and lead ores. 291
56. Hot Springs District, Weber County. Collection of minerals. 291
57. Iron King Mine, Willard Mining Dist. Gold, silver and lead ores. 291
58. Jim Fisk Mine, Ophir Mining Dist. Gold, silver, lead and zinc ores. 291
59. Keystone Mine, Eureka Tintic. Gold, silver, lead, zinc and iron ores. 291
60. La Plata Mine, La Plata. Silver and lead ores. 291
61. Last Chance Mine, Bingham Canyon. Gold, silver, lead and zinc ores. 291
62. Leeds Mine, Silver Reef Dist. Gold and silver ores. 291
63. Legal Tender Mine, Stockton Mining Dist. Gold, silver and lead ores. 291
64. Lexington Mine, Bingham Canyon. Gold, silver, lead and zinc ores. 291
65. Limmonite Mine, Willard Mining Dist. Gold silver and lead ores. 291
66. Lion Mine, Park City. Gold, silver and lead ores. 291
67. Lucky Boy Mine, Bingham Canyon. Gold, silver, lead and zinc ores. 291
68. Mammoth Mine, Eureka Tintic. Gold, silver, lead, zinc and iron ores. 291
69. Maxfield Mine, Big Cottonwood Dist. Gold, silver, lead and zinc ores. 291
70. Mayflower Mine, Park City. Gold, silver and lead ores. 291
71. Mona Mine, Ophir Mining Dist. Gold, silver, lead and zinc ores. 291
72. Miners' Delight Mine, Ophir Mining Dist. Gold, silver, tellurium ores. 291
73. Mormon Boy Mine, Willard Mining Dist. Gold, silver and lead ores. 291
74. Nast Mine, Bingham Canyon. Gold, silver, lead and zinc ores. 291
75. New Era Mine, Cedar City Dist. Iron ore. 291
76. Niagara Mine, Bingham Canyon. Gold, silver, lead and zinc ores. 291
77. Northern Light Mine, Ophir Mining Dist. Gold, silver, tellurium ores. 291
78. Northern Spy, Eureka Tintic. Gold, silver, lead, zinc and iron ores. 291
79. North Star Mine, Eureka Tintic. Gold, silver lead, zinc and iron ores. 291
80. Northland Mine, Park City. Gold, silver and lead ores. 291
81. Now I Have It Mine, Cedar City Dist. Iron ores. 291
82. No You Don't Mine, Stockton Mining Dist. Gold, silver and lead ores. 291
83. Ogden Canyon Mining Dist. Weber County. Lead and iron ores. 291
84. Oil Shales Mine, Ashley Fork Dist. Lead and silver ores. 291
85. Olivia Mine, Willard Mining Dist. Gold, silver and lead ores. 291
86. Ontario Mine, Park City. Gold, silver and lead ores. 291
87. Ophir Hill Mine, Ophir Mining Dist. Gold, silver, lead and zinc ores. 291
88. Peruvian Mine, Little Cottonwood Dist. Gold, silver and lead ores. 291
89. Patro Mine, Bingham Canyon. Gold, silver, lead and zinc ores. 291
90. Plumbago Mine, Marysville Mining District. Gold, silver and lead ores. 291
91. Queen Mine, La Plata. Silver and lead ores. 291
92. Red Jacket Mine, La Plata. Silver and lead ores. 291
93. Red Rose Mine, Eureka Tintic. Gold, silver, lead, zinc and iron ores. 291
94. Red Warrior Mine, Cedar City District. Iron ore. 291
95. Reed & Goodspeed Mine, Big Cottonwood Dist. Gold, silver, lead and zinc ores. 291
96. Rob Roy Mine, Beaver Mining Dist. Gold and silver ores. 291
97. Rough and Ready Mine, Bingham Canyon. Gold, silver, lead and zinc ores. 291
98. Salvation Mine, Cedar City Dist. Iron ore. 291
99. Sampson Mine, Bingham Canyon. Gold, silver, lead and zinc ores. 291
100. Selenide of Mercury Mine, Marysville Mining Dist. Gold, silver and lead ores. 291
101. Sevier Mine, Marysville Mining Dist. Gold, silver and lead ores. 291
102. Shoo Fly Mine, Ophir Mining Dist. Gold, silver, lead and zinc ores. 291
103. Silver King Mine, Park City. Gold, silver and lead ores. 291
104. Silver Spar Mine, Eureka Tintic. Gold, silver, lead, zinc and iron ores. 291
105. Southern Star, Silver Reef Dist. Gold and silver ores. 291
106. Spanish Mine, Bingham Canyon. Gold, silver, lead and zinc ores. 291
107. Stewart Mine, Bingham Canyon. Gold, silver, lead and zinc ores. 291
108. Stormont Mine, Silver Reef Dist. Gold and silver ores. 291
109. Sundown Mine, La Plata. Silver and lead ores. 291
110. Sunrise Mine, La Plata. Silver and lead ores. 291
111. Talmage Selenite Mine, Dirty Devil Dist. Selenite. 291
112. Tate Mine, Cedar City Dist. Iron ore. 291
113. Tiawaukee Mine, Bingham Canyon. Gold, silver, lead and zinc ores. 291
114. Trowbridge Mine, Eureka Tintic. Gold, silver, lead, zinc and iron ores. 291
115. Turn Green Mine, Bingham Canyon. Gold, silver, lead and zinc ores. 291

DEPARTMENT E.—MINES, MINING AND METALLURGY.

116. Utah, Territory of. Collection of gems. 291
117. Utah Mine, Bingham Canyon. Gold, silver, lead and zinc ores. 291
118. Utah Mine, Fish Springs Mining Dist. Gold, silver and lead ores. 291
119. Utah Queen Mine, Ophir Mining Dist. Gold, silver, lead and zinc ores. 291
120. Vindicator Mine, Lake Side Dist. Gold, silver, and lead ores. 291
121. Wardleigh Mine, La Plata. Silver and lead ores. 291
122. Webster Mine, Marysville Mining Dist. Gold, silver and lead ores. 291
123. White Reef Mine, Silver Reef Dist. Gold and silver ores. 291
124. Woodside Mine, Park City. Gold, silver and lead ores. 291
125. York Mine, Bingham Canyon. Gold, silver, lead and zinc ores. 291
126. Yosemite No. 1 Mine, Bingham Canyon. Gold, silver, lead and zinc ores. 291
127. Yosemite No. 2 Mine, Bingham Canyon. Gold, silver, lead and zinc ores. 291

GROUP 43.

128. Big Blowout Mine, Cedar City Mining Dist. Coal. 292
129. Brush Creek Copper Mines, Ashley Fork Dist. Coal. 292
130. Castle Gate Coal Co., Castle Gate Dist. Coal. 292
131. Chalk Creek Coal Co., Coalville. Coal. 292
132. Dyer Copper Mine, Ashley Fork Dist. Coal. 292
133. Elatorite Mine, Fort Duchesne Dist. Carbons. 293
134. Gilsonite Mine, Fort Duchesne Dist. Carbons. 293
135. Great Magnetite Mine, Cedar City Dist. Coal. 292
136. Green River District, Pi ute County. Petroleum. 294
137. Home Coal Co., Coalville. Coal. 292
138. New Era Mine, Cedar City Dist. Coal. 292
139. Now I Have It Mine, Cedar City Dist. Coal. 292
140. Oil Shales Mine, Ashley Fort Dist. Coal. 292
141. Pleasant Valley Mine, Castle Gate Dist. Coal. 292
142. Pleasant Valley Pacific R. R. Co. Coal. 292
143. Red Warrior Mine, Cedar City Dist. Coal. 292
144. Salvation Mine, Cedar City Dist. Coal. 292
145. Tate Mine, Cedar City Dist. Coal. 292
146. Taylor & Carey Coal Mines, Cedar City Dist. Coal. 292

GROUP 44.

147. Cederstrom Onyx Mine, Pelican Point Dist. Onyx. 296
148. Church Granite Quarries, Wasatch Dist. Granite. 296
149. Elias Morris State Mines, Provo Mining Dist. Slate. 296
150. Ogden Canyon Mining Dist., Weber County. Granite and slate. 296
151. Salina District. Calcites. 293

152. Utah, Territory of. Building stone, slate. 296

GROUP 46.

153. Asbestos Mine, Minersville Dist. Asbestos. 307
154. Cave Mine, Minersville Dist. Asbestos. 307
155. Utah, Territory of. Fuller's earth, clays, talc. 304

GROUP 48.

156. City of Rocks Mine, Little Cottonwood Dist. Sulphur. 317
157. Cove Creek Sulphur Mines. Sulphur. 317
158. Emma Mine, Little Cottonwood Dist. Sulphur. 317
159. Flagstaff Mine, Little Cottonwood Dist. Sulphur. 317
160. Great Salt Lake. Salt from beds and brines. 314
161. Green Tree Mine, Little Cottonwood Dist. Sulphur. 317
162. La Virkin Tunnel, Washington County. Alum. 316
163. Mt. Nebo Dist., Juab County. Salt. 314
164. Nephi Gypsum Mine, Nephi Dist. Gypsum. 320
165. Nine Mile Canyon District, Pi Ute County. Nitrate of soda. 315
166. Peruvian Mine, Little Cottonwood Dist. Sulphur. 317
167. South Fork Ogden River District. Weber County. Nitrate of potash. 315
168. Treweek Sulphur Mine, Sulphur Springs Dist. Sulphur. 317

GROUP 51.

169. Alabama Mine, Ophir Mining Dist. Copper ore. 340
170. Anchor Mine, Park City. Copper ores. 340
171. Argenta Mine, Stockton Mining Dist. Copper ore. 340
172. Ashley Coal Mines, Ashley Fork Dist. Copper ore. 340
173. Ashley Copper Mines, Ashley Fork Dist. Copper ores. 340
174. Barbee Mine, Silver Reef Dist. Copper ores. 340
175. Black Jack Mine, Eureka Tintic. Copper ore. 340
176. Bonanza Mine, Ophir Mining Dist. Copper ores. 340
177. Brooklyn Mine, Bingham Canyon. Copper ores. 340
178. Brush Creek Copper Mines, Ashley Fork Dist. Copper ores. 340
179. Buckeye Reef Mine, Silver Reef Dist. Copper ores. 340
180. Bullion-Beck Mine, Eureka Tintic. Copper ore. 340
181. Bully Boy Mine, Lewiston Mining Dist. Copper ore. 340
182. Bunker Hill Mine, Stockton Mining Dist. Copper ore. 340
183. California Mine, Park City. Copper ore. 340
184. California Mine, Silver Reef Mining Dist. Copper ores. 340
185. Calumet Mine, Stockton Mining Dist. Copper ore. 340

UNITED STATES.

186. Carissa Mine, Eureka Tintic. Cop- per ore. 340	223. Queen Mine, La Plata. Copper ores. 340
187. Carr Fork Dist. Copper ores. 350	224. Red Rose Mine, Eureka Tintic. Cop- per ore. 340
188. Catherine Mine, Stockton Mining Dist. Copper ore. 340	225. Sevier Mine, Marysville Mining Dist., Copper ore. 340
189. Centennial Mine, Eureka Tintic. Copper ore and antimony. 340	226. Shoe Fly Mine, Ophir Mining Dist. Copper ore. 340
190. Chicago Mine, Ophir Mining Dist. Copper ore. 340	227. Silver King Mine, Park City. Cop- per ores. 340
191. Copperbuilt Mine, Lewiston Mining Dist. Copper ore. 340	228. Silver Spar Mine, Eureka Tintic. Copper ore. 340
192. Copperopolis Mine, Eureka Tintic. Copper ore. 340	229. Southern Star Mine, Silver Reef Dist. Copper ores. 340
193. Copper Stain Mine, Lake Side Dist. Copper ore. 340	230. Splende of Mercury Mine, Marys- ville Mining Dist. Copper ore. 340
194. Crescent Mine, Park City. Copper ores. 340	231. Stormont Mine, Silver Reef Dist. Copper ore. 340
195. Dalton Mine, Marysville Mining Dist. Copper ore. 340	232. Sundown Mine, La Plata. Copper ores. 340
196. Daly Mine, Park City. Copper ores. 340	233. Sunrise Mine, La Palta. Copper ores. 340
197. Daly West Mine, Park City. Copper ores. 340	234. Trowbridge Mine, Eureka Tintic. Copper ores. 340
198. Deseret Mine, Ophir Mining Dist. Copper ore. 340	235. Utah Queen Mine, Ophir Mining Dist. Copper ore. 340
199. Dixie Copper Mines, St. George Dist. Copper ores. 340	236. Vindicator Mine, Lake Side Dist. Copper ores. 340
200. Dragon Mine, Eureka Tintic. Cop- per ore. 340	237. Wardleigh Mine, La Plata. Copper ores. 340
201. Dyer Copper Mine, Ashley Fork Dist. Copper ores. 340	238. Webster Mine, Marysville Mining Dist. Copper ore. 340
202. Eureka Hills Mine, Eureka Tintic. Copper ore. 340	239. White Reef Mine, Silver Reef Dist. Copper ores. 340
203. Glencoe Mine, Park City. Copper ores. 340	240. Woodside Mine, Park City. Copper ores. 340
204. Homestead Mine, Lewiston Mining Dist. Copper ore. 340	241. Yosemite No. 1 Mine, Bingham Can- yon. Copper ores. 340
205. Honorine Mine, Stockton Mining Dist. Copper ore. 340	242. Yosemite No. 2 Mine, Bingham Can- yon. Copper ore. 340
206. Jim Fisk Mine, Ophir Mining Dist. Copper ore. 340	
207. Keystone Mine, Eureka Tintic. Copper ore. 340	
208. La Plata Mine, La Plata. Copper ores. 340	
209. Leeds Mine, Silver Reef Dist. Cop- per ores. 340	
210. Legal Tender Mine, Stockton Mining Dist. Copper ore. 340	
211. Lion Mine, Park City. Copper ores. 340	
212. Mammoth Mine, Eureka Tintic. Copper ore. 340	
213. Mayflower Mine, Park City. Copper ore. 340	
214. Mona Mine, Ophir Mining Dist. Copper ore. 340	
215. Northland Mine, Park City. Copper ores. 340	
216. Northern Spy Mine, Eureka Tintic. Copper ore. 340	
217. North Star Mine, Eureka Tintic. Copper ore. 340	
218. No You Don't Mine, Stockton Min- ing Dist. Copper ores. 340	
219. Oil Shales Mine, Ashley Fork Dist. Copper ores. 340	
220. Ontario Mine, Park City. Copper ores. 340	
221. Ophir Hill Mine, Ophir Mining Dist. Copper ore. 340	
222. Plumbago Mine, Marysville Mining Dist. Copper ore. 340	
	GROUP 54.
	243. Baby McKee Mine, Big Cottonwood Dist. Antimony. 356
	244. Ben Harrison Mine, Big Cottonwood Dist. Antimony. 356
	245. Black Jack Mine, Eureka Tintic. Antimony. 356
	246. Bismuth Mine, Beaver Mining Dist. Bismuth. 359
	247. Brooklyn Mine, Bingham Canyon. Antimony. 356
	248. Bullion-Beck Mine, Eureka Tintic. Antimony. 356
	249. Bully Boy Mine, Marysville Mining Dist. 356
	a Antimony. 356
	b Quicksilver. 359
	250. Carissa Mine, Eureka Tintic. Anti- mony. 356
	251. Climax Mine, Bingham Canyon. Antimony. 356
	252. Copperbuilt Mine, Marysville Mining Dist. 356
	a Antimony. 356
	b Quicksilver. 359
	253. Copperopolis Mine, Eureka Tintic. Antimony. 356
	254. Coyote Mine, Coyote Creek Dist. Antimony. 356
	255. Dalton Mine, Marysville Mining Dist. a Antimony. 356
	b Quicksilver. 359

DEPARTMENT E.—MINES, MINING AND METALLURGY.

256. Dragon Mine, Eureka Tintic. Antimony.	356	275. Reed & Goodspeed Mine, Big Cottonwood Dist. Antimony.	356
257. Eureka Hills Mine, Eureka Tintic. Antimony.	356	276. Rob Roy Mine, Beaver Mining Dist. Bismuth.	359
258. Highland Mine, Bingham Canyon. Antimony.	356	277. Rough and Ready Mine, Bingham Canyon. Antimony.	356
259. Homestead Mine, Marysville Mining Dist.		278. Sampson Mine, Bingham Canyon. Antimony.	356
<i>a</i> Antimony.	356	279. Sevier Mine, Marysville Mining Dist.	
<i>b</i> Quicksilver.	359	<i>a</i> Antimony.	356
260. Keystone Mine, Eureka Tintic. Antimony.	356	<i>b</i> Quicksilver.	359
261. Last Chance Mine, Bingham Canyon. Antimony.	356	280. Silver Spar Mine, Eureka Tintic. Antimony.	356
262. Lexington Mine, Bingham Canyon. Antimony.	356	281. Spanish Mine, Bingham Canyon. Antimony.	356
263. Lucky Boy Mine, Bingham Canyon. Antimony.	356	282. Selenide of Mercury Mine, Marysville Mining Dist.	
264. Mammoth Mine, Eureka Tintic. Antimony.	356	<i>a</i> Antimony.	356
265. Maxfield Mine, Big Cottonwood Dist. Antimony.	356	<i>b</i> Quicksilver.	359
266. Mercury Mine, Lewiston Mining Dist. Quicksilver.	359	283. Stewart Mine, Bingham Canyon. Antimony.	356
267. Nast Mine, Bingham Canyon. Antimony.	356	284. Tiawauke Mine, Bingham Canyon. Antimony.	356
268. Niagara Mine, Bingham Canyon. Antimony.	356	285. Troybridge Mine, Eureka Tintic. Antimony.	356
269. Northern Spy Mine, Eureka Tintic. Antimony.	356	286. Turn Green Mine, Bingham Canyon. Antimony.	356
270. North Star Mine, Eureka Tintic. Antimony.	356	287. Utah Mine, Bingham Canyon. Antimony.	356
271. Petro Mine, Bingham Canyon. Antimony.	356	288. Webster Mine, Marysville Mining Dist.	
272. Plumbago Mine, Marysville Mining Dist.		<i>a</i> Antimony.	356
<i>a</i> Antimony.	356	<i>b</i> Quicksilver.	359
<i>b</i> Quicksilver.	359	289. York Mine, Bingham Canyon. Antimony.	356
273. Red Rose Mine, Eureka Tintic. Antimony.	356	290. Yosemite No. 1 Mine, Bingham Canyon. Antimony.	356
274. Red Warrior Mine, Bingham Canyon. Antimony.	356	291. Yosemite No. 2 Mine, Bingham Canyon. Antimony.	356

VERMONT.

GROUP 44.

1. Ascutney Granite Co., Windsor. Granite.	296	11. Lyon Granite Co., Dummerston. Granite.	296
2. Bardillo Marble Co., Brandon. Marble.	296	12. Mallet's Bay Marble Co., Colchester. Marble.	296
3. Barney Marble Co., Swanton. Marble.	296	13. Prince, S. F., & Co., South Dorset. Marble.	296
4. Brandon Italian Marble Co., Brandon. Marble.	296	14. Smith & Brainerd Marble Co., Middlebury. Marble.	296
5. Brush & Curtis, Hardwick. Granite.	296	15. Stearns, C. H., Hardwick. Granite.	296
6. Columbian Marble Co., Rutland. Marble.	296	16. True Blue Marble Co., Rutland. Marble.	296
7. Coroha Marble Co., Brandon. Marble.	296	17. Union Soapstone Co., Chester. Soapstone.	296
8. Eureka Slate Quarries, Fair Haven. Slate.	296	18. Vermont Granite Co., Montpelier. Granite.	296
9. Freedley, J. K., & Son, East Dorset. Marble.	296	19. Vermont Marble Co., Proctor. Marble.	296
10. Jones Bros., Williamstown. Granite.	296	20. Wetmorse & Morse Granite Co., Barre. Granite.	296

VIRGINIA.

GROUP 42.

1. Antrim, T. H., Waynesborough. Manganese ore. 291
2. Copenhagen, H. P., Marion. Barytes. 291
3. Hevey, E. T., Richmond. Gold-bearing quartz and gold pyrites. 291
4. Hull, H. B., Marion. Iron and manganese ores. 291
5. Long, James, Philadelphia. Specular iron ore and manganese. 291
6. Moore, Nathaniel, Cotopaxi. Needle ore. 291
7. Pierce, Judge, Christiansburgh. Zinc and iron ores. 291
8. Pulaski Iron Company, Pulaski. Iron ore. 291
9. Rye Valley Lead Company, Rye Valley. Lead ore. 291
10. Staley's Creek Manganese & Iron Co., Marion. Iron ores. 291
11. Williams, Martin, Bland Court House. Iron ore. 291
12. World's Fair Managers of Virginia. Zinc and iron ores, magnetite and manganese. 291
13. Wythe Lead Mine, Austinville. Lead ore, etc. 291

GROUP 43.

14. Brown, W. I., Abingdon. Coal. 292
15. Kroll, J. L., Bluefield. Coal and coke. 292
16. Pierce, Judge, Christiansburgh. Semi-bituminous coal. 292
17. Pocahontas Coal Company, Pocahontas. Coal and coke. 292
18. Russell Fork Coal & Lumber Co., Clintwood. Coal. 292

GROUP 44.

19. Griffin, John C., Petersburg. Granite. 296
20. Marion Marble & Mining Co., Marion. Marble and onyx. 296
21. World's Fair Managers of Virginia. Slate. 296

GROUP 45.

22. Albemarle Soapstone Company, New York. Soapstone. 297
23. World's Fair Managers of Virginia. Soapstone. 297

GROUP 46.

24. Miller, R. M., Pulaski. Sandstone. 305

25. Tillett, John R., Manassas. Sandstone. 305
26. Tinsley, E. D., Petersburg.
 - a Fire clay. 304
 - b Sandstone. 305
27. World's Fair Managers of Virginia.
 - a Fire clay and fire brick. 304
 - b Sandstone. 305
 - c Asbestos. 307

GROUP 47.

28. Buchanan, B. F., Marion. Gypsum. 313
29. Buena Vista Plaster Company, Saltville. Gypsum. 313
30. Moody, William, Marion. Limestone. 309
31. Pierce, Judge, Christiansburgh. Lime and limestone. 309

GROUP 48.

32. Baker, T. C., Paconian Springs. Paconian Spring mineral water. 321
33. Brown, Phil., Blue Ridge Springs. Alkaline mineral water. 321
34. Calhoun, C. A., Alleghany Springs. Alkaline mineral water. 321
35. Crenshaw Company, Richmond. Pyrites, iron pyrites and sulphuric acid. 317
36. Doggett, Cyrus, Fincastle. Ferromanganese mineral water. 321
37. Edmundson, E. L., Staunton. Seawright magnesium lithia mineral water. 321
38. Goode, Thomas F., Buffalo Lithia Springs. Lithia mineral water. 321
39. Kayser, David A., Staunton. Waukeska water. 321
40. Nye, George L., Wytheville. Lithia mineral water. 321
41. Tinsley, E. D., Petersburg.
 - a Ochres. 319
 - b Green sand marl. 320
42. Updike, B., Lone Gum. Native alum. 316
43. World's Fair Managers of Virginia. Ochres and mineral paint stone. 319

GROUP 49.

44. Pulaski Iron Company, Pulaski.
 - a Fluxes. 322
 - b Pig metal. 324
45. World's Fair Managers of Virginia.
 - a Fluxes. 322
 - b Pig metal. 324

GROUP 52.

46. World's Fair Managers of Virginia. Tin ore. 344

WEST VIRGINIA.

GROUP 42.

1. Barbour County. Iron ores. 291
2. Boggs, W. H., Franklin. Iron ores. 291
3. Braxton County. Iron ores. 291
4. Durbin, Charles R., Grafton. Iron ore. 291
5. Grant County. Iron ore. 291
6. Greenbrier County. Iron ore. 291
7. Hunter, H. H., Berkeley Springs. Iron ores. 291
8. Kanawha County. Iron ore. 291
9. Marion County. Iron ore. 291
10. Miller, J. H., Jr., Gauley Bridge. Iron ore. 291
11. Nemegyei, F., Irondale. Iron ore. 291
12. Ohio County. Iron ore. 291
13. Parsons, G. W., Keyser. Iron ore. 291
14. Putnam County. Iron ore. 291
15. Raleigh County. Iron ore. 291
16. Thayer, W. T., Charlestown. Iron ore. 291
17. Virginia Ore Banks, Harper's Ferry. Iron ore. 291
18. Wayne County. Iron ore. 291
19. White, C. S., Romney. Iron ores. 291

GROUP 43.

20. Anderson, J. C., Charleston. Coal and cannel coal. 292
21. Austin Coal Works, Austin. Coal. 292
22. Beechwood Coal & Coke Co., Claremont. Coal. 292
23. Belmont Coal & Coke Co., Crown Hill. Coal. 292
24. Bewry Coal & Coke Co., Stone Cliff. Coal and coke. 292
25. Bewry, William, Copper Co., Echo. Coal. 292
26. Black Band Mining & M'fg Co., Spring Hill. Coal. 292
27. Blanche Coal Co., Colliers. Coal. 292
28. Boggs Run Coal & Mining Co., Wheeling. Coal. 292
29. Booth & Bowen Coal & Coke Co., Freeman's. Coal and coke. 292
30. Bottom Creek Coal & Coke Co., Vivian. Coal. 292
31. Brier Hill Coal & Coke Co., Brier Hill. Coal. 292
32. Brooklyn Coal & Coke Co., Rush Run. Coal. 292
33. Brown, Thomas L., Charleston. Cannel coal. 292
34. Buckeye Coal & Coke Co., Freemans. Coal. 292
35. Burke, W. A., Coal Co., Elmo. Coal. 292
36. Burning Springs District, Wirt County. Oil. 294
37. Burns, J. J., Fairmont. Coal. 292
38. Campbells' Creek Coal and Coke Co., Malden. Coal. 292

39. Cannelton Coal Co., Cannelton. Coal. 292
40. Casswell Creek Coal & Coke Co., Freeman's. Coal. 292
41. Central Coal & Coke Co., Fire Creek. Coal. 292
42. Clark Coal & Coke Co., Claremont and Fairmont. Coal. 292
43. Coaldale Coal & Coke Co., Coaldale. Coal and coke. 292
44. Consumers' Coal & Mining Co., Spilman. Coal. 292
45. Cooper Coal & Coke Co., Cooper. Coal. 292
46. Crozer Coal & Coke Co., Elkhorn. Coal and coke. 292
47. Cunard Coal & Coke Co., Cunard. Coal. 292
48. Davis Coal & Coke Co., Elkins. Coal. 292
49. Davis, H. G., Coal Co., Thomas. Coal. 292
50. D. E. F. Coal Co., Hawk's Nest. Coal. 292
51. Despard Coal Co., Clarksburg. Coal. 292
52. Doddridge County District, Doddridge County. Oil. 294
53. Elkhorn Coal & Coke Co., Maybeury. Coal and coke. 292
54. Elk Ridge Coal & Coke Co., Kyle. Coal. 292
55. Empire Coal & Coke Co., Landgraf. Coal. 292
56. Eureka Coal & Coke Co., Landgraf. Coal. 292
57. Fayette Coal & Coke Co., Fayette Station. Coal. 292
58. Fire Creek Coal & Coke Co., Fire Creek. Coal. 292
59. Forbes, Carmichael & Co., Wellsburg. Coal. 292
60. Gaston Coal & Coke Co., Gaston. Coal. 292
61. Gilliam Coal & Coke Co., Algoma. Coal and coke. 292
62. Goodwill Coal & Coke Co., Goodwill. Coal. 292
63. Great Kanawha Colliery Co., Mt. Carbon. Coal. 292
64. Hawk's Coal & Coke Co., Hawk's Nest. Coal. 292
65. Houston Coal & Coke Co., Elkhorn. Coal and coke. 292
66. Hutchinson Coal & Coke Co., Fairmont. Coal. 292
67. Kanawha & Gauley Coal and Coke Co., Fayette County. Coal. 292
68. Keystone Coal & Coke Co., Belcher. Coal. 292
69. Keystone Oil & Gas Co., Ritchie Court House. Oil. 294

UNITED STATES.

70. Lick Branch Coal & Coke Co., May-beury. Coal and coke. 292
71. Longdale Iron Co., Sewell Depot. Coal. 292
72. Louisville Coal & Coke Co., Goodwill. Coal. 292
73. Lynchburg Coal & Coke Co., Powhatan. Coal. 292
74. Marmet Mines, Raymond City. Coal. 292
75. Marion County District, Mannington. Oil. 292
76. Meadow Creek Coal & Coke Co., Meadow Creek. Coal. 292
77. Miller, Alex. McVeigh, Alderson. Coal. 292
78. Monongahela Coal & Coke Co., Monongahela. Coal and coke. 292
79. Monongahela Dist., Mt., Morris, Oil. 294
80. Montana Coal & Coke Co., Fairmont. Coal. 292
81. Mt. Carbon Coal Co., Powellton. Coal. 292
82. Nemegyel, F., Irondale. Coal. 292
83. Newburg Orrell Coal & Coke Co., Newburg. Coal. 292
84. New River Coke Co., Caperton. Coal. 292
85. Norfolk Coal & Coke Co., Maybeury. Coal and coke. 292
86. Nuttallburg Coal & Coke Co., Nuttallburg. Coal. 292
87. Peel Splint Coal Co., Lewiston. Coal. 292
88. Peerless Coal & Coke Co., Vivian. Coal. 292
89. Petroleum District, Ritchie County. Oil. 294
90. Powhatan Coal & Coke Co., Powhatan. Coal. 292
91. Quinnimont Coal & Iron Co., Quinnimont. Coal. 292
92. Robinson Coal & Coke Co., Coalburg. Coal. 292
93. Royal Coal & Coke Co., Royal. Coal. 292
94. Rush Run Coal & Coke Co., Rush Run. Coal. 292
95. Shamokin Coal & Coke Co., Maybeury. Coal and coke. 292
96. Sistersville District, Sistersville. Oil. 294
97. Slake Coal & Coke Co., Slake. Coal. 292
98. Stevens Coal Co., Coalburg. Coal. 292
99. Taylor Oil Co., Belmont. Oil. 294
100. Thurmond Coal & Coke Co., Thurmond. Coal. 292
101. Tidewater Coal & Coke Co., Vivian. Coal. 292
102. Turkey Gap Coal & Coke Co., Ennis. Coal and coke. 292
103. Upland Coal & Coke Co., Elkhorn. Coal. 292
104. Virginia and Pittsburg Coal & Coke Co., Fairmont. Coal. 292
105. Volcano District, Wood County. Oil. 294
106. West Fairmont Coal & Coke Co., Fairmont. Coal. 292
107. West Virginia Central & Pittsburg Ry. Co., Elk Garden. Coal. 292

108. West Virginia Coal Co., Glenville. Coal. 292
109. West Virginia Oil Co., Parkersburg. Lubricating oil. 294
110. Whittaker Iron Co., Wheeling. Coal. 292
111. Wilson, H. S., Cairo. Asphaltum coal. 292
112. Winifred Coal and Coke Co., Winifred. Coal. 292

GROUP 44.

113. Alderson Brownstone Co., Alderson. Brownstone. 296
114. Boggs, W. H., Franklin. Limestone. 296
115. Campbell, Alexander, Rowlesburg. Sandstone. 296
116. Davis, Hon. Henry G., Elkins. Sandstone. 296
117. Hudgins, W. G., Hinton. Brownstone. 296
118. Huison, J. & D., King's Creek. Sandstone. 296
119. Keenan, Samuel, Parkersburg. Sandstone. 296
120. Knott, Charles H., Shepherdstown. Building limestone. 296
121. Lewis, Dr. J. L., Weston. Sandstone. 296
122. Lucas, Hon. D. B., Charlestown. Marble. 296
123. Miller, J. H., Jr., Gauley Bridge. Sandstone. 296
124. Ohio County. Limestone. 296
125. Sattis, F. A., Sattis. Sandstone. 296
126. Van Pelt, M., Moundsville. Sandstone. 296
127. Virginia Brownstone Co., Hinton. Stone. 296
128. Wells, E. W., Clarksburg. Sandstone. 296
129. West Virginia & Pittsburg Railway Co., Piedmont. Stone. 296
130. White, C. S. L., Romney. Marble, stones and granite. 296

GROUP 45.

131. Johnson, Abram, Briscoe Run. Grindstone. 297

GROUP 46.

132. Boggs, W. H., Franklin. Clay. 304
133. Glade Fire Brick Co., Nusums. Fire clay and fire bricks. 304
134. Hunter, H. H., Berkeley Springs. Clays. 304
135. Mallonee, L., Grafton. Fire clays. 304
136. Monongahela County. Glass sand and fire clay. 304
137. Nemegyel, —, Irondale. Fire clay. 304
138. Nicholls & Mathews, Wellsburg. Pressed brick and clay. 304
139. Pickens Lumber Co., Pickens. Clays. 304
140. Pownall, F. G., Romney. Glass sand. 304
141. Virginia Brownstone Co., Hinton. Clay. 304
142. White, C. S., Romney. Fire clays. 304

DEPARTMENT E.—MINES, MINING AND METALLURGY.

GROUP 47.

143. Knott, Wm. J., & Bros., Molers.
Lime and limestone. 309
144. Summers county. Hydraulic lime-
stone. 309
145. Washington Building Lime Co.,
Bakerton. Lime and limestone. 309

GROUP 48.

146. Boggs, W. H., Franklin. Ochre. 319
147. Capon Springs, Hampshire County.
Spring water. 321
148. Dickinson, J. Q., Malden.
a Salt. 314
b Mineral water. 321
149. Hardy county. Yellow ochre. 319
150. Hope Salt & Coal Co., Mason City.
Salt. 314

151. Hunter, H. H., Berkeley Springs.
Mineral water. 321
152. Irondale, City of, Preston Co. Spring
water. 321
153. Liverpool Salt & Coal Co., Hartford
City. Salt. 314
154. Red Sulphur Springs, Monroe County.
Mineral water. 321
155. Salt Sulphur Springs, Monroe County.
Mineral water. 321
156. White Sulphur Springs, Greenbrier
County. Mineral water. 321

GROUP 49.

157. Hardy county. Pig iron. 324

GROUP 51.

158. White, C. S., Romney. Copper ores.
340

WISCONSIN.

GROUP 42.

1. Bainbridge, Thomas, New Diggings.
Lead ore. 291
2. Bently, Thomas R., Milwaukee. Gold
and silver quartz. 291
3. Blades, A. R., Benton. Lead ore. 291
4. Blake, William P., Shullsburg. Lead
ore. 291
5. Blend Mining Co., Benton. Lead ore.
291
6. Bonanza Mining Co., Benton. Lead
ore. 291
7. Buchan, Joseph, Benton. Lead ore.
291
8. Buddle, J. H., Hurley. Iron ore. 291
9. Bunde & Upmeyer, Milwaukee. Dia-
mond and pearls. 291
10. Cleary, T. L., Plattville. Lead ore.
291
11. Coltman Mining Co., Benton. Lead
ore. 291
12. Coulthard Mining Co., New Dig-
gings. Lead ore. 291
13. Craig, Frank, New Diggings. Lead
ore. 291
14. Crawford, Jefferson, Hazel Green.
Lead ore. 291
15. Davidson, John, Benton. Lead ore.
291
16. Dayton & Murphy. Stevens' Point.
a Cabinet of minerals, etc. 290
b Jasper and serpentine. 291
17. East and West Cary Mining Co.,
Hurley. Iron ore. 291
18. Elevator Mining Co., Shullsburg.
Lead ore. 291
19. Freeman, James, Shullsburg. Lead
ore. 291
20. Gantze, L., Hazel Green.
a Cabinet of minerals. 290
b Lead ore. 291
21. Gannonia Iron Co., Hurley. Iron ore.
291
22. George, Henry, Shullsburg. Cabinet
of minerals, etc. 290
23. Gillette, John, Buncombe. Lead ore. 291

24. Gillette, Mrs. John, Buncombe.
a Cabinet of minerals, etc. 290
b Gold and silver quartz. 291
25. Gundry, Joseph, Mineral Point.
a Cabinet of minerals, etc. 290
b Lead ore. 291
26. Heathcock Mining Co. Linden. Lead
ore. 291
27. Helena Mining Co., Shullsburg. Lead
ore. 291
28. Hoffman, Henry, Leadmine. Lead
ore. 291
29. Hopkins, Chas., Ashland. Iron ore. 291
30. Ida Mining Co., Benton. Lead ore. 291
31. Iron Belt Iron Mining Co., Hurley.
Iron ore. 291
32. Iron Belt Mine, Hurley. Iron ore. 291
33. Jenks, Mrs. Dr., Hazel Green.
a Cabinet of minerals, etc. 290
b Gold and silver quartz. 291
34. Jenks, Walter, Argyle. Lead ore. 291
35. Kennedy, Richard, Highland. Lead
ore. 291
36. Leadmine Mining Co., Leadmine.
Lead ore. 291
37. Leaky Mining Co., Leadmine. Lead
ore. 291
38. Little Giant Mining Co., Shullsburg.
Lead ore. 291
39. Mapps, Chas., Belmont.
a Cabinet of minerals, etc. 290
b Lead ore. 291
40. Marks, Reuben, Belleville.
a Cabinet of minerals, etc. 290
b Gold and silver quartz, iron and lead
ore. 291
41. Meyer, Richard, Lancaster. Lead
ore. 291
42. Mineral Point Zinc Co., Mineral Point.
Lead ore. 291
43. Mix, Dr. H., Highland. Cabinet of
minerals, etc. 290
44. Montreal River Iron Mining Co.,
Hurley. Iron ore. 291
45. Murphy, James, Platteville. Lead
ore. 291

UNITED STATES.

- | | |
|--|--|
| 46. O'Brien, John, Hazel Green. Cabinet of minerals, etc. 290 | Lime and sand rock. 296 |
| 47. Occidental Mining Co., New Diggings. Lead ore. 291 | 80. Duchateau Stone Co., Green Bay. Lime and sand rock. 296 |
| 48. Odanah Iron Mining Co., Hurley. Iron ore. 291 | 81. Duck Creek Stone Co., Duck Creek. Lime and sand rock. 296 |
| 49. O'Neill, Thomas, Darlington. Lead ore. 291 | 82. Dunneville Stone Co., Menomonee. Lime and sand rock. 296 |
| 50. Peebles, Robert, Leadmine. Cabinet of minerals, etc. 290 | 83. Emerson Stone Co., Etna. Lime and sand rock. 296 |
| 51. Pense Iron Mining Co., Hurley. Iron ore. 291 | 84. French Granite Co., Ashland. Granite, rough and polished. 296 |
| 52. Posey, Mrs., Whitewater. Pearls. 291 | 85. Marblehead Stone Co., Fond du Lac. Lime and sand rock. 296 |
| 53. Prentice Brownstone Co., Ashland. Cabinet of minerals. 290 | 86. Prentice Brownstone Co., Ashland. Lime and sand rock. 296 |
| 54. Raisbeck, William, Benton. Lead ore. 291 | 87. Shullsburg Stone Co., Shullsburg. Lime and sand rock. 296 |
| 55. Richmond, F. C., Shullsburg. a Cabinet of minerals. 290
b Lead ore. 291 | 88. Superior Stone Co., Superior. Lime and sand rock. 296 |
| 56. Rooney, W. C., Ashland. Iron ore. 291 | 89. Waukesha Stone Co., Waukesha. Lime and sand rock. 296 |
| 57. Ross, William, Mineral Point. a Cabinet of minerals, etc. 290
b Lead ore. 291 | 90. Waupaca Granite Co., Waupaca. Granite, rough and polished. 296 |
| 58. Sally Waters Mining Co., New Diggings. Lead ore. 291 | 91. Wauwatoosa Stone Co., Wauwatoosa. Lime and sand rock. 296 |
| 59. Savage, John H., Shullsburg. Lead ore. 291 | |
| 60. Scales, S. H., Shullsburg. Lead ore. 291 | |
| 61. Schroeder Bros., Platteville. Lead ore. 291 | |
| 62. Section No. 33 Mine, Hurley. Iron ore. 291 | |
| 63. Smith, James, Benton. Lead ore. 291 | |
| 64. State of Wisconsin. a Cabinet of minerals, etc. 290
b Collection of ores. 291 | |
| 65. Stump Grove Mining Co., Shullsburg. Lead ore. 291 | |
| 66. Superior Iron Mining Co., Superior. Iron ore. 291 | |
| 67. Van Dusco Mining Co., Buncombe. Lead ore. 291 | |
| 68. Wall, James S., Hurley. a Cabinet of minerals. 290
b Iron ore. 291 | |
| 69. Welcome, Chas., Pratt. Gold and silver quartz. 291 | |
| 70. Welsh, Edward, Ashland. Iron ore. 291 | |
| 71. Whaley Bros., Benton. a Cabinet of minerals, etc. 290
b Lead ore. 291 | |
| 72. Windsor Iron Co., Hurley. Iron ore. 291 | |
| 73. Wisconsin Lead & Zinc Co., Shullsburg. Lead ore. 291 | |
| 74. Zinc Carbonate Co., Shullsburg. Lead ore. 291 | |
- GROUP 44.**
- | | |
|---|--|
| 75. Amberg Granite Co., Amberg. Granite, rough and polished. 296 | |
| 76. Ashland Stone Co., Ashland. Lime and sand rock. 296 | |
| 77. Berlin & Montello Co., Berlin. Granite, rough and polished. 296 | |
| 78. Cohn Granite Co., Wausau. Granite, rough and polished. 296 | |
| 79. Darlington Stone Co., Darlington. Lime and sand rock. 296 | |
- GROUP 46.**
- | | |
|--|--|
| 92. Cream City Brick Co., Milwaukee. Brick and clay. 304 | |
| 93. Dunn County Pressed Brick Co., Menomonee. Brick and clay. 304 | |
| 94. Edgerton Brick Co., Edgerton. Brick and clay. 304 | |
| 95. Frackleton, Mrs. R. G., Milwaukee. Brick and clay. 304 | |
| 96. Kewaunee County Pressed Brick Co., Kewaunee. Brick and clay. 304 | |
| 97. Menomonee Brick Co., Menomonee. Brick and clay. 304 | |
| 98. Meyer, Herman, Antigo. Brick and clay. 304 | |
| 99. Superior Brick Co., Superior. Brick and clay. 304 | |
| 100. Winnebago County. Glass sand. 304 | |
- GROUP 48.**
- | | |
|--|--|
| 101. Bainbridge, Thomas, New Diggings. Zinc carbonate and oxide. 319 | |
| 102. Bancroft, W. F., Shullsburg. Zinc oxide. 319 | |
| 103. Bethesda Mineral Spring Co., Waukesha. Mineral water. 321 | |
| 104. Blades, A. R., Benton. Zinc oxide. 319 | |
| 105. Blake, William P., Shullsburg. Zinc carbonate and oxide. 319 | |
| 106. Bland Mining Co., Leadmine. Zinc carbonate and oxide. 319 | |
| 107. Bonanza Mining Co., Benton. Zinc carbonate and oxide. 319 | |
| 108. Buchan, Joseph, Benton. Zinc oxide. 319 | |
| 109. Chippewa Falls Mineral Spring Co., Chippewa Falls. Mineral water. 321 | |
| 110. Coltman Mining Co., Leadmine. Zinc carbonate and oxide. 319 | |
| 111. Coulthard Mining Co., New Diggings. Zinc carbonate and oxide. 319 | |
| 112. Craig, Frank, New Diggings. Zinc carbonate and oxide. 319 | |
| 113. Crawford, Jefferson, Hazel Green. Carbonate of zinc. 319 | |

DEPARTMENT E.—MINES, MINING AND METALLURGY.

- | | |
|--|---|
| <p>114. Dayton & Murphy, Stevens' Point. Iron paint. 319</p> <p>115. Dunn Mining Co., Etna. Zinc carbonate and oxide. 319</p> <p>116. Elevator Mining Co., Shullsburg. Zinc carbonate and oxide. 319</p> <p>117. Emerson, John, Etna. Zinc carbonate and oxide. 319</p> <p>118. Frackleton, Mrs. R. G., Milwaukee. Mineral paint. 319</p> <p>119. Freeman, James, Shullsburg. Zinc oxide. 319</p> <p>120. Gantze, L., Hazel Green. Zinc carbonate. 319</p> <p>121. Gillette, John, Buncombe. Zinc carbonate and oxide. 319</p> <p>122. Grover Cleveland Mining Co., Shullsburg. Zinc oxide. 319</p> <p>123. Gundrey, Joseph, Mineral Point. Zinc carbonate and oxide. 319</p> <p>124. Hayden, Albert, Shullsburg. Zinc oxide. 319</p> <p>125. Heathcock Mining Co., Linden. Zinc oxide. 319</p> <p>126. Helena Mining Co., Shullsburg. Zinc carbonate. 319</p> <p>127. Hoffman, Henry, Leadmine. Zinc carbonate and oxide. 319</p> <p>128. Hygeia Mineral Spring Co., Chipewewa Falls. Mineral water. 321</p> <p>129. Ida Mining Co., Leadmine. Zinc carbonate and oxide. 319</p> <p>130. Kennedy, Richard, Highland. Zinc carbonate and oxide. 319</p> <p>131. Leadmine Mining Co., Leadmine. Zinc carbonate and oxide. 319</p> <p>132. Leakley Mining Co., Leadmine. Zinc carbonate and oxide. 319</p> <p>133. Little Giant Mining Co., Shullsburg. Zinc carbonate. 319</p> <p>134. Marks, Reuben, Belleville. Zinc carbonate and oxide. 319</p> <p>135. Mineral Point Zinc Co., Mineral Point. Mineral leads and paints and zinc oxides. 319</p> <p>136. Mix, Dr. H., Highland. Zinc carbonate and oxide. 319</p> <p>137. Murphy, James, Platteville. Zinc oxide. 319</p> | <p>138. Occidental Mining Co., New Diggings. Zinc carbonate and oxide. 319</p> <p>139. Peebles, Robert, Leadmine. Zinc carbonate and oxide. 319</p> <p>140. Raisbeck, William, Benton. Zinc carbonate and oxide. 319</p> <p>141. Richmond, F. C., Shullsburg. Zinc carbonate and oxide. 319</p> <p>142. Ross, William, Mineral Point. Zinc carbonate and oxide. 319</p> <p>143. Sally Waters Mining Co., New Diggings. Zinc carbonate and oxide. 319</p> <p>144. Savage, John H., Shullsburg. Zinc carbonate and oxide. 319</p> <p>145. Scales, S. H., Shullsburg. Zinc carbonate. 319</p> <p>146. Smith, James, Benton. Zinc oxide. 319</p> <p>147. Spensley, Calvert, Mineral Point. Zinc carbonate. 319</p> <p>148. Van Dusco Mining Co., Buncombe. Zinc carbonate and oxide. 319</p> <p>149. Waukegan Zinc Co., Mineral Point. Minerals, leads and paints. 319</p> <p>150. Whaley Bros., Benton. Zinc carbonate and oxide. 319</p> <p>151. Wisconsin Zinc & Lead Co., Shullsburg. Zinc carbonate and oxide. 319</p> <p>152. Zinc Carbonate Co., Shullsburg. Zinc carbonate and oxide. 319</p> |
|--|---|

GROUP 51.

- | |
|--|
| <p>153. George, Henry, Shullsburg. Copper ore. 340</p> <p>154. Gillette, John, Buncombe. Copper ore. 340</p> <p>155. Gundry, Joseph, Mineral Point. Copper ore. 340</p> <p>156. Jefferson County. Copper ore. 340</p> <p>157. Marks, Reuben, Belleville. Copper ore. 340</p> <p>158. Richmond, F. C., Shullsburg. Copper ore. 340</p> <p>159. State of Wisconsin, Mineral Point. Copper ore. 340</p> <p>160. Superior Copper Co., Ashland. Copper ore. 340</p> <p>161. Wall, J. S. & W., Superior. Copper ore. 340</p> |
|--|

WYOMING.

GROUP 42

- | | |
|---|--|
| <p>1. Crane, A. D., Atlantic. Gold ore. 291</p> <p>2. Fitch, R. E., La Plata Mines. Galena. 291</p> <p>3. Granier, Emile, Atlantic. Gold ore. 291</p> <p>4. Guernsey, C. A., Hartville. Hematite. 291</p> <p>5. Harper, John, Gulch. Hematite. 291</p> <p>6. Long, John S., Wood River Mine. Galena. 291</p> <p>7. Mead, Elwood, Black's Fort. Moss agate. 291</p> <p>8. Meyer, I. R., Carbon. Gold ore. 291</p> <p>9. McCluer, J. H., Hartville. Moss agate. 291</p> | <p>10. Norton, A. O., Atlantic. Gold ore. 291</p> <p>11. Russell, John, Black Butte. Lead carbonates. 291</p> <p>12. Taylor, Wm., Rock Creek. Iron ore, mineral soap. 291</p> <p>13. Uinta County. Quartz, calc spar and druses. 291</p> <p>14. Union Pacific Railway, Rawlins. Hematite ore. 291</p> <p>15. Williams, F. O., Carbon County. Lead carbonates. 291</p> <p>16. Wyoming Railway and Iron Co., Milwaukee, Wis. Iron ore. 291</p> <p>17. Wyoming Central Association, Cheyenne. Iron ore. 291</p> |
|---|--|

UNITED STATES.

18. Wyoming State. Gold ore, placer gold, petrifications, actinolite, magnesium, iron ore from Seminoc Mountains, representing twenty-seven mining claims; agates from Split Rock, Rawlins, Hartville, Sweetwater, etc. 291

GROUP 43.

19. Anglo-American Oil Co., Glenrock. Petroleum. 294
 20. Crook County. Crude petroleum. 294
 21. Dillon, Malachi, Rawlins. Coal. 292
 22. Kellogg, H. M., Aurora, Neb. Illuminating oil. 294
 23. Kilpatrick Bros. and Collins. New-castle.
 a Coal and coke. 292
 b Petroleum. 294
 24. Landon, John F., Dutton Basin.
 a Asphaltum. 293
 b Petroleum. 294
 25. McAvoy, J. A., Shoshone Indian Reservation. Petroleum. 294
 26. Murphy, M., Lander. Petroleum. 294
 27. Pennsylvania Oil Co., Casper. Petroleum. 294
 28. Rankin Bros., Sage Creek. Coal. 292
 29. Rock Springs Coal Co., Rock Springs. Coal. 292
 30. Rocky Mountain Coal Company, Red Cañon. Coal. 292
 31. Spencer, J. C., Weston County. Petroleum. 294
 32. Sweetwater Coal Co., Rock Springs. Coal. 292
 33. Union Pacific Coal Co. Coal from Almy, Rock Springs, Carbon and Hanna. 292
 34. Van Dyke Coal Mining Company, Rock Springs. Coal. 292
 35. Wyoming Central Association, Cheyenne. Petroleum. 294
 36. Wyoming State.
 a Coal from Carbon and Lander. 292
 b Oils from Rattlesnake district, Glenrock and Salt Creek. 294

GROUP 44.

37. Bradley, R. W., Cheyenne. Granite and marble. 296
 38. Downey, S. W., Laramie. Marble and granite. 296
 39. Guernsey, C. A., Hartville. Marble. 296
 40. Hay, Henry G., & Gilchrist, Andrew, Cheyenne. Marble. 296
 41. Kearney Stone Company, Rawlins. Gray sandstone. 296
 42. Keefe, M. P., Iron Mountain. Sandstone. 296
 43. Smith, D. P., Alcova. Sandstone. 296
 44. Stocks, Z. T., Sheridan County. Sandstone and marble. 296
 45. Union Pacific Railway, Ham's Fork. Sandstone. 296
 46. Wyoming State. Onyx, granite, sandstone, jasper, chalcedony, building tone and albaast 296

GROUP 45.

47. Granier, Emile, Atlantic. Placer sand. 297

GROUP 46.

48. Downey, S. W., Laramie. Asbestos. 307
 49. Laramie Glass Company, Laramie City. Minerals for glass making. 304
 50. Wyoming State.
 a Graphite. 298
 b Kaolinite, soda clay, fine and coarse sand, glass making material. 304
 c Mica from Jelm Mountain. 305
 d Asbestos. 307

GROUP 47.

51. Arthur, J. B., Laramie. Cube of gypsum. 313
 52. Rocky Mountain Stucco & Manufacturing Co., Red Buttes. Gypsum and plaster of paris. 313
 53. Wyoming State.
 a Lime. 309
 b Plaster and gypsum. 313

GROUP 48.

54. Allred, J. B., Afton.
 a Salt. 314
 b Native sulphur. 317
 55. Blydenburgh, C. E., Rawlins. Red ochre. 319
 56. Downey, S. W., Laramie. Soda crystals. 316
 57. Dupont & Co., Sweetwater River.
 a Salt. 314
 b Carbonate of soda. 316
 58. Gill, D. W., & Co., Cold Creek. Salt. 314
 59. Gill, D. W., Cheyenne. Soda. 316
 60. Kilpatrick & Collins, Salt Creek. Salt brine. 314
 61. Morgan, E. S. N., Sweetwater River. Salt. 314
 62. Union Pacific Railway, Rawlins.
 a Salt. 314
 b Mineral paint. 319
 63. Wyoming Central Association, Bull Springs. Salt. 314
 64. Wyoming State.
 a Alum. 316
 b Yellow, red and orange ochres. 319
 c Saratoga and Pazeca waters. 321

GROUP 51.

65. Grant, Leroy, Tie Siding. Copper ore. 340
 66. Guernsey, C. A., Hartville. Copper ore. 340
 67. Sturgis, William, Hartville. Copper ore. 340
 68. Wyoming State.
 a Copper. 339
 b Copper ore. 340

GROUP 52.

69. Wyoming State.
 a Tin ore. 344
 b Stream tin. 345

AUSTRIA.

GROUP 42.

1. Elbogen, Eduard, Vienna. Mining products. 291

GROUP 44.

2. Cingrosch, Johann, Pilsen (Bohemia). Marble and quarry products. 296

GROUP 46.

3. Fischer, Philipp, Karlsbad. Articles of Sprudelstein. 304

GROUP 48.

4. Brunnendirection Ziedelweid Dr. Robert Reichel, Eger (Bohemia). Mineral wells. 321

5. Brunnendirection, Moriz Fuerst von Lobkowitz'sche, Bilin (Bohemia). Mineral water and well products. 321

6. Karlsbader Stadtgemeinde und Mineralwasserversendung Loebel Schottlaender, Karlsbad. Mineral waters, sinters, well products. 321

GROUP 49.

7. Poldihuette Tiegelgussstalfabrik, Kladno (Bohemia). Crucible steel. 331

8. Spaeter, Karl, Werksverwaltung, Veitsch (Stiria). Magnesit. 333

GROUP 52.

9. Rudolfshuette, Feinblechwalzwerk, Teplitz (Bohemia). Rolled tin plates. 346

BELGIUM.

GROUP 44.

1. Evrard-Higot, L., Annevoie. Marble. 296

2. Société Anonyme de Merbes-le-Château; Merbes-le-Château. Polished marble. 296

3. Van Brabant, Edward, & Co., Basècles. Polished marble. 296

GROUP 45.

4. Jacques, G., & Co., Viesalm. Grindstones, whetstones, etc. 297

GROUP 46.

5. Escoyez, Louis, Tertre. Articles in fire clay, porcelain tiles, etc. 304

GROUP 47.

6. Bistiaux, Félix-désire, Brussels. Metallic cement rock. 309

7. Dutoit, A. & L., Calonne. Artificial stone. 309

8. Picha, Edouard, Gand. Cement. 309

9. Société Anonyme de Niel on Rupell, Antwerp. Portland cement. 311

10. Société Anonyme des Carrières, fours à chaux et à ciment du Coucou, Antoing. Lime and cement. 309

11. Société Anonyme Union Fraternelle, Calonne. Cements, tiles, etc. 309

GROUP 48.

12. Brunard, Edouard Fleurus. Sulphate of baryta. 316

13. Falloise, Henri, Mons. Phosphates and superphosphates. 320

GROUP 49.

14. Jowa, J. F., Liège. Galvanized corrugated iron. 334

15. Société Anonyme des Laminaires, tréfileries et pointeries de Dampremy-Olloy; Dampremy. Bar iron, wire, etc. 334

16. Société anonyme des Usines du Phénix; Châtelaineau. Sheet-iron. 334

17. Thiébaut, Fernand & Co., Marchienne-au-Pont. Iron and steel bars, etc. 334

GROUP 60.

18. Hypersiel, Augustin, Marchienne-au-Pont. Models of parachute and hoists for mines. 386

GROUP 64.

19. Sottiaux, A., Strépy-Bracquegnies. Grinding mills. 396

CANADA.

GROUP 42.

1. Geological & Natural History Survey, Ottawa. Collection of minerals 290
2. Provincial Government of British Columbia, Victoria, B. C. Collection of minerals. 290
3. Provincial Government of North-West Territories, Regina. Collection of minerals. 290
4. Provincial Government of Nova Scotia, Halifax. Collection of minerals. 290
5. Provincial Government of Ontario, Toronto. Collection of minerals. 290
6. Provincial Government of Quebec, Quebec. Collection of minerals. 290

GROUP 43.

- 7 Alberta Railway & Coal Co., Lethbridge, N. W. T. Bituminous coal. 292
8. Grant, J. A., Lethbridge, N. W. T. Petroleum. 294
9. Gaetz, Leonard, Red Deer, N. W. T. Coal. 292

GROUP 44.

10. Anthistle, W. J., London, Ont. Stone sepulchre. 296
11. Epps, Dodds & Co., St George, N. B. Red granite. 296
12. Fish, C. E., Newcastle, N. B. Building stones. 296
13. Gaetz, Leonard, Red Deer, N. W. T. Building stone. 296
14. McCallum, J. G., Calgary, N. W. T. Building stone. 296
15. Provincial Government of Prince Edward, Charlottetown. Building stone 296
16. Stevens, Edgar S., Moncton, N. B. Block of freestone. 296

GROUP 45.

17. Fish, C. E., Newcastle, N. B. Grindstones. 297

GROUP 46.

18. Gaetz, Leonard, Red Deer, N. W. T. Clay. 304
19. Hopper, Irwin & Co., Montreal. Asbestos. 307
20. Jones, C. C., Elmsdale, P. E. I. Clay. 304
21. Owners of Lake Girard Mine, Ottawa, Ont. Mica. 304
22. Walker Mining Co., Ottawa, Ont. Graphite. 298

GROUP 47.

23. Albert Mfg. Co., Hillsboro, N. B. Gypsum and plaster. 313
24. Garland, Nicholas, Eglinton, Ont. Gypsum and plaster. 313
25. Hopper, Irwin & Co., Montreal. Cement. 309
26. Knowlton, W. H., Toronto. Paving blocks. 311

GROUP 48.

27. Doyle, R. J., Owen Sound, Ont. Chemical paint. 319
28. Elarton Salt Works Company, Warwick, Ont. Salt. 314
29. Hendricks, J. N. & C. J., Plumweseep, N. B. Salt and brine. 314

GROUP 49.

30. Canada Iron Furnace Company, Montreal, Que. Pig iron ores. Dept. G 324

CAPE OF GOOD HOPE.

GROUP 42.

1. De Beers Consolidated Diamond Mines, Cape of Good Hope. Process of extracting rough diamonds from diamantiferous earth; cutting and polishing the same.
 - a Collection of minerals collected south of the Zambesi. 290
 - b Crocodilites. 291

GROUP 43.

2. Coal from Burghersdorp. 292

GROUP 46.

3. Asbestos. 307

GROUP 51.

4. Copper ore from Namaqualand. 340

CEYLON.

GROUP 46.

1. Ceylon Commission. Specimens of plumbago. 298

DENMARK.

GROUP 47.

1. Faxø Lime Quarry, Faxø, Sealand.
Limestone, chalk and flint. Dept. H 309

2. Steven's Cliff, Copenhagen. Lime,
chalk and flint. Dept. H 309

GERMANY.

GROUP 42.

1. Ehrensberger, Fritz, Eichstaedt. Col-
lection of petrefactions. 291
2. Maximilianshütte, Unterwellenborn.
Ore, manganese, crude iron. 291
3. Mayer, Martin, Mayence. Garnets. 291
4. Mrbaneck, Joh., & Co., Frankfort-on-
the-Main. Rough and cut diamonds. 291
5. Royal Prussian Mining Bureau and
Management of the Brunswick-Lueneburg
Mines at Clausthal. Collection of ores. 291

GROUP 43.

6. Heymann, H., Danzig. Amorphous goods. 293
7. Ruetgers, Rud, Berlin. Coal tar pro-
ducts. 293
9. Spiecker, Bonn. Alloy for the manu-
facture of pressed coal. 292
10. Stantien & Becker, Königsberg i-Pr.
Amber. 293
11. Vereinigung der Paraffin-und Mineral-
Öelfabriken, Halle, a. d. S. 292
 a Coal. 292
 b Tar. 293
 c Oils. 294

GROUP 44.

12. Aktiengesellschaft fuer Marmor-In-
dustrie, Kiefersfelden. Marble. 296
13. Lange, Theodor, Brieg. Slate. 296
14. Retsch & Co., Wunriedel. Dolomite. 296
15. Wimmel, P., & Co., Berlin. Building
stones, sculptures, real sand-stone portal. 296

GROUP 45.

16. Gläfy, G. A., Nuremberg. Polishing
powder. 297
17. Heck, Adam, Breslau. Emery, emery
wheels. 297
18. Zinndorf, J., Baumbach, near Coblenz.
Emery stones, emery wheels. 297

GROUP 46.

19. Seger, Dr. H., & Kramer, E., Berlin.
Clay ware, ceramic literature. 304
20. Ludovici, Carl, Ludwigshafen-on-the-
Rhine. Tiles. 304
20a. Wertham, Louis, Frankfort-on-the-
Main. Asbestos goods. 307

GROUP 47.

21. Alsen, Hamburg. Cement in process
of manufacture. 309

22. Brasch & Rothenstein, Berlin. Stair-
way of artificial stone. 311
23. Bunzlauer Glassworks, Carlswerk-
Bunzlau. Artificial stone mixtures. 311
24. Ehrhardt Bros., Neunkirchen. Rock
cement and process of manufacture. 309
25. Eugen, Kauter & Co., Berlin. Cement
monument. 309
26. International Sandstone Foundry,
Bloemendahl & Gruenberg, Berlin. Arti-
ficial sandstone, building blocks, orna-
ments. 311
27. Industrierwerke Aktiengesellschaft,
Landsberg-Bavaria. Stone imitations. 311
28. Portland Cement Works, Heidelberg.
 a Cement and specimens. 309
 b Portal of artificial sandstone. 311
29. Portland Cement Works "Germania,"
Lehrte.
 a Raw material and specimens. 309
 b Beton mixture. 310
30. Porth, Bros., Schwabing. Figures of
artificial stone. 311

GROUP 48.

31. Eichhorn, K., Berlin. Drawings of
the process of the manufacture of sul-
phuric acid. Dept. G 317
32. Grossherzog, Hessische Saline und
Bad, Theodorshalle. Brine and products,
etc. Dept. A 314
33. Kgl. Salzamt, Schoenebeck. Salt
products and models. 314
34. Verkaufs-Syndikat der Kaliwerke,
Leopoldshall-Hassfurt. Raw and manu-
factured salts. Depts. A&E 316

GROUP 49.

35. Association for the sale of Siegerlaen-
der Siegen.
 a Iron ore. 322
 b Spiegeleisen. 324
36. Friedrichsgrube Kgl. und Friedrich-
shütte, Tarnowitz-Silesia.* Products and
ores of lead and zinc. 334
37. Fuchs, Joh. Wolfg., Nuremberg. Fine
wires of brass, steel, etc. 334
38. Gute Hoffnungshütte, Oberhausen.
Iron. 334
39. Hoeveler & Dieckhaus, Papenburg.
Anti-friction metals. 324
40. Huettlinger, Joh., Bernh., Schwabach-
Bavaria. Wire. 334
41. Iron Works of Stumm Bros. & Rudolf
Böcking & Co., Neunkirchen and Hal-

GERMANY.

- bergerhuetten. Articles made of cast iron pipes; steel rails. 334
42. Johang, Heinrich, Lobberich-Rheinland. Steel wire. 334
43. Krupp, Friedr., Essen. Cast and pressed steel. 334
44. Spring Steel M'fg Co., Cassel. Steel. 334
45. Union Stock Co. for Mining Iron & Steel, Dortmund. Products of iron and steel, etc. 334
46. Weissmann, J. G., Schweinau near Nuremberg. Horse shoes and shoed hoofs. 334

GROUP 51.

47. Mansfeld Copper Slate Co., Mansfeld.
- a* Raw copper. 339
- b* Smelting process and products. 340
- c* Specimens, etc. 342
48. Management of the Royal Prussian and Ducal Mines and Foundries of Brunswick, Oker-Juliushuetten-Rammelsberg near Goslar.
- a* Raw copper. 339
- b* Manufactured products. 342

GROUP 53.

49. Basse & Selve, Altena-Westphalia. Nickel and cobalt products. 350
50. German Gold and Silver Smelting Establishment, formerly Roessler, Frankfurt-on-the-Main. Ore, metals. 350
51. Grillo, Wilhelm, Oberhausen, a. d. R. Zinc products 348

GROUP 57.

52. German Gold and Silver Smelting Establishment, Frankfurt-on-the-Main. Models, plans and chemicals. 367
53. Maschinenbau Anstalt, "Humboldt," Kalk near Cologne. Concentrating plant. 367

GROUP 60.

54. Fenner-Aachen. Apparatus used in testing survey instruments. 380

GROUP 62.

55. Heckel Bros., Saarbruecken. Cable. 404

GROUP 66.

56. Goebel, Elias, & Son, Exterode near Grossmalmerode. Hessian crucibles. 404
57. Otto, Dr. C. & Co., Dahlhausen. Coke furnaces, etc. Dept. G 404
58. Stettiner Chamottefabrik Aktiengesellschaft vorm. Didier, Stettin. Models of furnaces. 404

GROUP 67.

59. Association for the sale of Siegerlaender spiegeleisen, Siegen. Maps. 410
60. Berg-Inspection, Kgl. Zabee, Silesia. Maps of the Upper Silesian coal districts. 410
61. Deseniss, F. H. & Jacobi, A., Hamburg. Graphic and statistical synopsis of well drilling. 412
62. Hall, Henry, Berlin. Models and drawings of the brown coal mining industry. 410
63. Maschinenfabrik und Eisengiesserei, Zeitz. Models, etc., of a plant for the manufacture of pressed coal. 410
64. Mining Division of the Technical High School, Aachen.
- a* Models. 410
- b* Publications. 411
65. Mech. Kgl. tech. Versuchsanstalt, Charlottenburg, near Berlin. Reports. 411
66. Royal Mines and Mining Directory, Saarbruecken. Maps of the Saerbruecken coal district. 410
67. Royal Mining Bureau, Breslau. Maps and drawings of the Silesian coal district. 410
68. Royal Mining Bureau, Mining School, Halle, a. d. S. and Eisleben. Map and models of the brown coal district. 410
69. Royal National Mining Academy, and Geological Survey, Berlin. Maps, reliefs and publications of the survey of the country. 412
70. Royal Prussian Mining Bureau and Management of the Brunswick-Lueneburg mines, Clausthal. Representation of the ore district of the Heaz mountains. 410
71. Royal Prussian Ministry of Commerce and Trade, Berlin.
- a* Representation of the gold value of the mining products of Germany. 410
- b* Mining publications. 411
- c* Model of a drill tower. 412
72. Salzamt, Kgl., Stassfurt. Model of the royal alkaloid salt mine. 410
73. Salzamt, Kgl., Schoenebeck. Model and drawing of salt mining. 410
74. Stettner, Jos., Freiberg i-Saxony. Library works on mining and metallurgy. 411
75. Vereinigungs-Gesellschaft, Kohlscheid, near Aachen. Map of the Aachen coal district. 410
76. Westpfaelische Berggewerkschaftskasse, Bochum. Statistics and stratum chart of the Ruhr coal basin. 410
77. Zeichnungs Kommission der "Huetten," Technische Hochschule, Berlin. Drawings of mines. Dept. G 410

GREAT BRITAIN.

GROUP 42.

1. Collection of Economic Minerals.

Alum stone from J. H. Cookson & Son; bauxite and alum clay from County Antrim, Ireland; alum shale from Park Hill colliery, Wakefield; antimony ore, from Dumfriesshire, Scotland; arsenical pyrites from New Cook's Kitchen and Levant mines, Cornwall, and Devon Great Consols mine, Tavistock; barytes from Wotherton and Snailbeach mines, Shropshire, Mawston mine, Derbyshire, Dronmore mine, Bantry, Ireland, Glendale mine, County Leitrim, Ireland, Devonshire Baryta Chemical Company, Bridford; witherite from the Snailbeach mine, Shropshire, and Old Gang Lead mine, Swaledale; clays from Wareham, Dorsetshire, Torrington, Devon, Rough Lee colliery, Newton Abbot, Devonshire, Stourbridge, and the Woodville district; coal from South Staffordshire, Yorkley, Dan's Drift Colliery, Trenchard seam, Robin Hood and Old Roundwood collieries, Wakefield, Manor colliery, collieries north of England and United National collieries, Cardiff; anthracite from Gwaun Cae Gurwen colliery, Swansea, South Wales; cannel coal from Flintshire; cobalt and asbolane from Foel Hiraddug mine, North Wales; copper ore from Coniston, Lancashire, Wheal Uny and New Cook's Kitchen mine, Cornwall, Mona and Parys mines, Anglesea, North Wales, Devon Great Consols mine, Tavistock, Laxey mine, Isle of Man and East Pool mine, Cornwall; flint from Brandon, Suffolk; flint implements presented by R. J. Snavely and Mrs. W. Weller, Poley of Brandon and from Santan Doronham; fluor spar from Castleton, Derbyshire and New Cook's Kitchen mine, Cornwall; fuller's earth from Mr. H. N. Garrett, Midford; gold ore and auriferous quartz from the Morgan Gold mine, North Wales; gypsum from Sub-Wealden Boring Company and Vale of Belvoir and Newark Plaster Company; iron ore from Gillfoot Park Mining Company, Egremont, Midland Company's mines at Frodingham, Lincolnshire, Park Iron mines, Hodbarrow Mining Company, Millom, Cumberland, the Eston mines, Regil Mining Company, Winford, Northamptonshire and Antrim Iron Ore Company; iron pyrites from Cae Coch mine, North Wales, Cronebane and Tigrony mines, Wicklow, Ireland; jet from Whitby, Yorkshire; lead ore from Snailbeach mine, Shropshire, Mawston mine, Derbyshire, Milwr Mining Company's mines, Holywell, Flintshire, South String, Coniston Mining Syndicate, Ltd., Lancashire, Rushen mine, Isle of Man, East Darren mine, Cardiganshire, Old Gang lead mines, Swaledale, Halkyn mine, North Wales, North Wales Leadworks,

Ltd., Unity Wood mine, Cornwall, Great Laxey mine, Minera mine, Wrexham, Foxdale mine, Van mine, Llanidloes, North Wales and Rushen mine, Isle of Man; lignite from Bovey Tracey, Devonshire; manganese ore from Benallt mine, Rhiw, Llyndywarnen mine, Harlech, North Wales, Merionethshire, Craig Uchaf mine, Llanbedr, Merionethshire, Dynffry Mining Company, Merionethshire and Moelfre mine, near Bartmouth, North Wales; ochre from Cronebane and Tigrony mines, Wicklow, Ireland, Mona and Parys mines, Anglesea, North Wales and Regil Mining Company, Winford; oil shale from Broxburn, Scotland, Drumshoreland and Broxburn seam; petroleum from Southgate colliery, Derbyshire; phosphates from Cambridge-shire, Bedfordshire, Norfolk and Suffolk Crag formation; fossils from the coprolite beds; salt from Salt Union, Ltd., Winsford, Cheshire and United Alkali Company, Ltd., Hebburn-on-Tyne; slate from Oakeley Slate Quarries Company, Ltd., Blaenau Festiniog, North Wales and Llechwedd Quarry, Blaenau Festiniog; stone from Blue Stone quarries, near Wakefield, South Staffordshire and Bath Stone Firms, Ltd., Bath; strontium from Yate, Gloucestershire; celestine from the Regil Mining Company, Winford; tin ore from Cornish, Flat Lode, Wheal Uny, Gossan, Silver Lode, North Dolcoath, Levant mine, Cornwall, Carn Brea mine, Dolcoath mine, Cook's Kitchen mine, East Pool mine, Tincroft mine, Wheal Kitty, Tregurtha mine, South Condurrow mine, Cornwall, East Pool mine, Wheal Dorothy, Cornwall and Highburrow and Teague's lodes, Carn Brea mines; uranium ore from the Uranium mine, Gram-pound Road, Cornwall, Wolfram, East Pool mine, Cornwall; zinc ore from Mawston mine, Derbyshire, Treeastell mine, Conway, Milwr Mining Company, Ltd., Flintshire, North Wales, Old Milwr shaft, Halkyn mines, North Wales, New Minera mine, Wrexham and Talacre mines, Holywell, North Wales, and blende from Moelwyn, near Festiniog, Mona and Parys mines, Anglesea, Great Laxey Mining Company, Ltd., Isle of Man, Minera mine, Wrexham and Van mine, Llanidloes, North Wales. 290

2. Johnston, Matthey, & Co., Ltd., London. Platinum and other precious metals. 290

GROUP 43.

3. Cory Bros., & Co., Cardiff, South Wales. Smokeless steam coal. 292

4. Crown Preserved Coal Company, Cardiff, South Wales. Fuel in blocks. 292

5. North's Navigation Collieries, Ltd., Cardiff, South Wales. Steam coal and coke. 292

GREAT BRITAIN.

6. Turner, William & John, Wigan.
Cannel coal. 292

GROUP 44.

7. Dean, John, Liverpool. Slate slab.
296
8. Farmer & Brindley, London. Egyptian
porphyry. 296
9. Flynn, Thomas, M. H., & Co., Bess-
brook, Ireland. Granite curbing, paving
blocks and slabs. 296

GROUP 45.

10. Beckmann & Co., London. Emery
wheels, slabs, files and hones. 297
11. Flynn, Thomas M. H., & Co., Bess-
brook, Ireland. Granite rollers and tables
for grinding. 297
12. Nixey, W. G., London. Knife polish
and flour emery. 297

GROUP 46.

13. Albion Clay Company, Burton-on
Trent. Fire clay and bricks; terra cotta
pipes. 304
14. British Fuller's Earth Company, Ltd.,
Woburn Sands. Fuller's earth. 304
15. Farnley Iron Company, Ltd., Leeds.
Fire clay; glazed bricks; porcelain baths.
304
16. Fuller's Earth Mining Company, Ltd.,
Woburn Sands. Fuller's earth. 304
17. Fuller's Earth Union, Ltd., London.
Fuller's earth. 304
18. Lower Lansalson China Clay Com-
pany, Cornwall. China clays. 304
19. Martin Bros., Plymouth. Clay and
fire bricks. 304
20. Nixey, W. G., London. Black lead.
302
21. Price, J. R. Lloyd, Bala, North Wales.
Granular and powdered earth. 304

GROUP 47.

22. Albino Portland Cement Company,
Ltd., Greenhithe. Portland cement. 309
23. Barron, F. C., & Co., London. Port-
land cement. 309
24. Francis & Co., Ltd., London. Cement;
whiting; work in cement. 309
25. Gibbs & Co., Ltd., Grays. Portland
cement. 309
26. Hickisson, J., London. Cement. 309

27. Irish Portland Cement & Brick Co.,
Ltd., Dublin, Ireland.
a Limestone and shale; Portland ce-
ment. 309
b Bricks and tiles. 311
28. Patent Adamant Stone Company, Ltd.,
London. Artificial building and paving
stone. 311

GROUP 48.

29. Ashton, Nicholas, & Sons, Liverpool.
Salt. 314
30. Higgins, Thomas, & Co., Liverpool.
Salt. 314
31. Salt Union, Ltd., London. White and
rock salts. 314

GROUP 49.

32. Farnley Iron Company, Ltd., Leeds.
Iron. 334
33. Jessop, William, & Sons, Ltd., Shef-
field. Steel. 334
34. Low Moor Company, Ltd., Bradford.
a Ironstone. 322
b Pig, refined, puddled and finished
iron. 324
c Bars, rivets, axles, plates, rods, etc.
334
35. Musselburgh Wire and Steel Works,
Musselburgh, Scotland. Wire.
Dept. G 334
36. North's Navigation Collieries, Ltd.,
Cardiff, South Wales. Manufactured iron.
334

GROUP 56.

37. Johnson, S. H., & Co., Stratford. Ap-
paratus for leaching ores. Dept. F 366

GROUP 61.

38. Bickford, Smith & Co., Ltd., Tuck-
ingmill. Fuses, etc. 382
39. McCulloch, James, London. Shaft
sinking stretcher-bar and quarry bars. 385

GROUP 63.

40. McCulloch, James, London. Tunnel
car. 389

GROUP 64.

41. Coward, W. H., Bath. Crushing mill.
392

GROUP 67.

42. Hornsby, Richard, & Sons, Ltd.,
Grantham. Models of mining machinery.
Dept. F 401

ITALY.

GROUP 43.

1. Aveline, H. & A. B., & Co., Catania.
Asphalt. 293
2. Falvella, Giuseppe, Naples.
a Bitumen. 292
b Petroleum. 294
3. Gaentzer, C. F., Ancona. Asphalt. 293
4. Sicilian Asphalt Society, Palermo.
Asphalt. 293

GROUP 44.

5. Ceruti, Lorenzo, Varallo-Sesia. Mar-
bles. 296

6. Ferrigno, Antonio, Vietri a Mare.
Marble. 296
7. Merlo, Paolo, Turin. Marble. 296
8. Rossi, Ciampolini, Pisa. Alabaster.
296
9. Triscornia, Paolo, Carrara. Dressed
marbles. 296
10. Venturi, Davide, & Son, Bologna.
Dressed marble. 296
11. Vergara, Eng. Ernesto, Naples. Mar-
ble. 296

DEPARTMENT E.—MINES, MINING AND METALLURGY.

GROUP 46.

12. Anghirelli, Giuseppe, Montalcino. Fire bricks. 304
13. Bendez & Martiny, Turin. Asbestos. Dept. H. 307
14. Cereghino, Angelo, Genoa. Asbestos. 307
15. Ghilardi, De Filippi & Co., Bari. Square bricks in cement. 304
16. Lodigian Society, Lodi. Brick. 304
17. Ormao, F., & Sons, San Stefano Camastro. Glazed squares. 304
18. Sperandeo, L., & Bros., Vietri. Paving squares. 304

GROUP 47.

19. Appiani Ceramic Establishment, Treviso. Paving materials. 311

20. Bandini & Bros., Florence. Chalk. 309
21. Garibaldi, Perroni & Co., Messina. Cement bricks. 309
22. Ghilardi, Eng. S., Milan. Cements. 309
23. Savelli, Cav. Filippo, Modigliana. Cements. 309
24. Siligardi, Romualdo, Florence. Chalk and cement. 309

GROUP 48.

25. Maggiorani, Antonio, Rome. Mineral waters. 321
26. Paladino, Savino, Garfagnana. Mineral waters. 321
27. Vasto, Giuseppe, Catania. Sulphur. 317

GROUP 54.

28. Vogel, L. Co., Milan. Arsenic and chemical compost. 358

JAMAICA.

GROUP 46.

1. Berry, Carey B., Glengoffe. Clays. 304
2. Burke, John, Trinityville. Clays. 304
3. Shaw, Robt., Christiana. Clays. 304
4. Tomlinson, R. B., Lacovia. Pottery sand. 304
5. Walker, C. L., Walker's Wood. Clays. 304

GROUP 48.

6. Darrell, J. W., Turk's Island. Salt. 314

7. Frith Bros., Turk's Island. Salt. 314
8. Harriott, H., F. Turk's Island. Salt. 314
9. Murphy, J. D., Turk's Island. Salt. 314
10. Shearer, J. W., Duncans. Ochre. 319
11. Stubbs, A., Turk's Island. Salt. 314

GROUP 51.

12. Paine, W. S., Kingston. Grey copper ore. 340

JAPAN.

GROUP 42.

1. Akitaken. Mineral specimens. 291
2. Department of Agriculture and Commerce, Mining Bureau, Japan. Gold, silver, copper, antimony and iron ores. 291
3. Geological Office, Japan. Rocks, minerals, fossils, soils, etc. 291
4. Kambei Takagi, Tokyo. Minerals and metal specimens. 291
5. Kanejiro Aibara, Tokyo. Specimens of minerals. 291
6. Moshichi Ode, Tochigi. Manganese ore. 291
7. Yasuzaemon Ichikawa, Tochigi. Manganese. 291

GROUP 43.

8. Department of Agriculture and Commerce, Mining Bureau, Japan. Coal. 292
9. Kamon Hayashi, Kumamoto. Anthracite. 292
10. Meitaro Takenuchi, Saga. Coal. 292
11. Miike Coal Mining Company, Fukuoka. Coal. 292
12. Morizo Kashiwagi, Fukuoka. Coal. 292

GROUP 44.

13. Jyumpachi Kasai, Yamaguchi. Marble. 296

GROUP 45.

14. Kametaro Yasukawa, Nara. Emery. 297
15. Kumajiro Hirata, Tokyo. Stone for engraving stamps. 297
16. Yoshiharu Tone, Tokyo. Paper polishing. 297

GROUP 46.

17. Clay Company, Chiba. Clays. 304
18. Hirone Shimomura, Tokyo. Graphite crucibles. 303
19. Kyujiro Tominaga, Hyogo. Tiles. 304
20. Osaka Crucible Company, Osaka. Graphite crucibles. 303

GROUP 47.

21. Yu Hasegawa, Akita. Artificial slate. 311

GROUP 48.

22. Department of Agriculture and Commerce, Mining Bureau, Japan. Sulphur. 317

NORWAY.—SWEDEN.

23. Jinzaburo Marui, Hyogo. Carbonate water.	321	38. Toshichi Fukushima, Osaka. Copper and brass wires.	342
24. Kihei Hasegawa, Hyogo. Mineral water.	321	39. Yasugoro Segawa, Akita.	
25. Kisei Fujiharu, Gumma. Sulphur (natural and refined).	317	<i>a</i> Native copper.	339
26. Kishichiro Terao, Kumamoto. Sulphur (natural and refined).	317	<i>b</i> Copper ore.	340
27. Motoharu Miyasaki, Hyogo. Table salt.	314	<i>c</i> Copper.	342
28. Ryuhei Kawasoe, Nagasaki. Table salt.	314	GROUP 52.	
29. Seizo Toda, Okayama. Iron oxide.	319	40. Kihachirō Kawamoto, Kyōto. Tin and brass foils.	346
30. Shimotsuke Red Lead Company, Tochigi. Red lead.	319	GROUP 54.	
31. Taroemon Kashiwaya, Akita. Sulphur.	317	41. Denzaburō Fujita, Osaka. Antimony.	356
32. Tomitaro Yamaguchi, Nagasaki. Table salt.	314	42. Kumasuke Kawabata and two others, Yehime. Antimony.	356
33. Yasota Yamamoto, Hyogo. Table salt.	314	43. Matsuhiko Uyeda, Kumamoto. Antimony.	356
34. Yasujiro Makioka, Tokyo. Table salt.	314	44. Nekohachi Makino, Miyazaki. Native antimony.	356
GROUP 51.			
35. Jihei Yokoyama, Osaka. Copper.	342	GROUP 55.	
36. Toku Sumitomo, Yehime. Copper (refined).	342	45. Gohei Iwatsubo, Kyōto. Gold leaf.	363
37. Toshichi Fukushima, Kumamoto. Copper ingot.	342	46. Hikoyemon Higuchi, Osaka. Gold and silver leaf.	363
		47. Kihachiro Kawamoto, Kyōto. Gold and silver leaf.	363
		GROUP 67.	
		48. Geological Office, Japan. Geological maps, reports, descriptions, etc.	410

NORWAY.

GROUP 43.			
1. Hole, S., Lygre, Lindaas. Peat.		5. Költzow, Johs. F. A., Christiania. Stone monuments, table-slabs, etc.	
	Dept. H 292		Dept. H 296
GROUP 44.			
2. Anker, Christian, Fredikshald. Marble.	Dept. H 296	GROUP 45.	
3. Evensen & Schmuser, Ltd., Arendal. Syenites and granites.	Dept. H 296	6. Madsen, Tellef, Kragerō. Grindstone.	
4. Gude, Erik A., Christiania. Monuments; columns; slabs; paper weights.	Dept. H 296		Dept. H 297
		GROUP 47.	
		7. Actieselskabet Christiania Portland cement fabrik, Christiania. Portland cement.	Dept. H 309

SWEDEN.

GROUP 42.		6. Grafversfors Stenhuggeri och Stineri, Grafversfors. Urns, columns, pedestals and monuments of Swedish granites. 296	
1. Andersson, Axel Reinhold, University of Upsala. Rock and fossil sections polished for microscopes. 291		7. Kessel & Röhls Granitaktiebolag, Wänevik. Polished slabs in various colors. 296	
2. Igelstrom, L. J., Sunnemo. Iron ore from Sjogrufoa mines. 291		8. Sveriges Geologiska Undersokning, Stockholm. Granite, porphyry, marble, etc. 296	
3. Sveriges Geologiska Undersokning, Stockholm. Ores from Swedish mining districts. 291		GROUP 46.	
4. Kurunavaara & Loussavaara Co., Ltd., Stockholm. Ores. 291		9. Rörstrands Aktiebolag, Stockholm. Feldspar. 304	
GROUP 44.			
5. Gerlach, Hugo, Warberg. Granite slabs. 296			

DEPARTMENT E.—MINES, MINING AND METALLURGY.

GROUP 47.

10. Skånska Cement Aktiebolaget, Malmö. Portland cement; raw materials. 309
 11. Aktiebolaget Forenade Kalkbrotten, Malmö. Limestone. 309
 12. Aktiebolaget Wisby Cement Fabrik, Stockholm. Portland cement. 309
 13. Aktiebolaget Skånska Cementgjuteriet, Malmö. Cement and tiles. 309

GROUP 49.

14. Aktiebolaget Ankarsrums Bruk, Ankarsrum.
a Ingots, blooms and billets. 331
b Samples of rolled metal. 334
 15. Aktiebolaget Bofors-Gullspång, Bofors.
a Iron ores. 324
b Pig-iron; furnace slag. 334
c Iron and steel; shot; wire. 334
 16. Aktiebolaget Finspångs Styrkebruk, Skönarbo.
a Pig-iron. 324
b Iron and steel; wire, etc. 334
 17. Aktiebolaget Osterby Bruk, Danne-mora.
a Iron ores and fuel charcoal. 324
b Pig-iron. 331
c Crucible steel. 334
d Iron and steel bars, wire, etc. 334
 18. Avesta Jernverks Aktiebolag, Avesta.
a Iron ores. 331
b Ingots and billets of Martin and Bessemer steel. 334
c Steel bars and fancy steel. 334
 19. Degerfors Jernverk, Degerfors.
a Ingots and steel bars. 331
b Bar and sheet iron, wire, etc. 334
 20. Fagersta Bruks Aktiebolag, Westan-fors.
a Iron ores. 324
b Pig iron. 331
c Siemens-Martin steel ingots. 334
d Iron and steel; wire. 334
 21. Forsbacka Jernverks Aktiebolag, Forsbacka.
a Ores. 324
b Pig iron and slag. 331
c Ingots; billets. 334
d Forged steel for tools. 334

22. Horndals Jernverks Aktiebolag, Stockholm.
a Iron ore. 324
b Pig iron. 331
c Lancashire blooms. 334
d Bar iron, rods, wire, etc. 334
 23. Jernkontorets Kollektivuställning, Stockholm.
a Ore mixtures, fluxes and fuels. 322
b Pig iron. 324
c Crucible steel. 331
d Iron and steel; bars, rods, sheets. 334
 24. Kilafor's Jernverks Aktiebolag, Kila-fors.
a Pig iron. 324
b Bar iron. 334
 25. Kohlswa Bruk, Kohlswa.
a Iron ores. 324
b Pig iron. 334
c Steel bars, rods, etc. 334
 26. Laxa Bruks Aktiebolag, Laxa.
a Iron ore. 324
b Pig iron. 334
c Bar iron. 334
 27. Sebenius, J. L., Nykroppa. Models of apparatus for removing blowholes in steel, and products. 326
 28. Söderfors Bruks Aktiebolag, Söderfors.
a Iron ores. 324
b Pig iron. 331
c Steel ingots and billets. 334
d Rolled and forged iron, anvils. 334
 29. Stora Kopparbergs Bergslags Aktiebolag, Falun.
a Iron ore. 324
b Pig iron. 331
c Ingots and blooms. 334
d Iron and steel bars, rods, etc. 334
 30. Surahammars Bruks Aktiebolag, Surahammar. Steel in various forms. 334
 31. Uddeholms Aktiebolag, Uddeholm.
a Blooms and billets. 331
b Iron and steel bars and rods, etc. 334

GROUP 61.

32. Uddeholms Aktiebolag, Uddeholm. Borers. 385

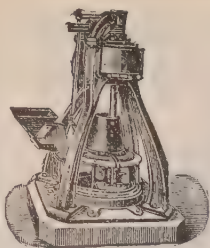
GROUP 67.

33. Nardenstrom, C., Gothenburg. Map of mines in Sweden. 410
 34. Sveriges Geologiska Undersökning, Stockholm. Models and geological sections of mines, etc. 410

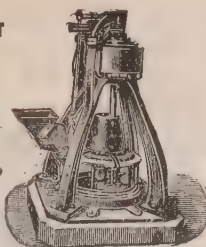
SWITZERLAND.

GROUP 44.

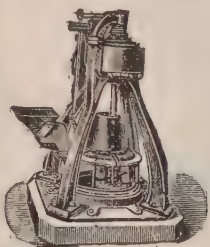
1. Société des carrières de Marbres Antiques du Valais. Antique marbles. 996



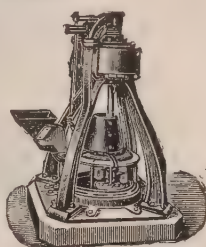
The most successful Machine made for
Pulverizing Quartz,
Ores of all kinds,
Phosphate Rock,
Carbon Foundry Facings,
Plumbago, Portland Rock,
and Cements, etc.



**A PERFECT PULVERIZER,
THE NEW GRIFFIN MILL,
OF ALL REFRACTORY SUBSTANCES.**



Will work either wet or dry.
Capacity from two to four tons
per hour, to sixty mesh or finer.
Descriptive pamphlet and full
information furnished on ap-
plication to



Bradley Fertilizer Co.,
92 STATE STREET, - BOSTON.

Rhode Island Perkins Horse Shoe Company,

— MANUFACTURERS OF —

**"PERKINS" PATTERN HORSE AND MULE SHOES
AND TOE CALKS.**

Perkins Horse Shoes

LIGHT, MEDIUM AND
HEAVY PATTERNS.

Perkins Mule and Jack Shoes

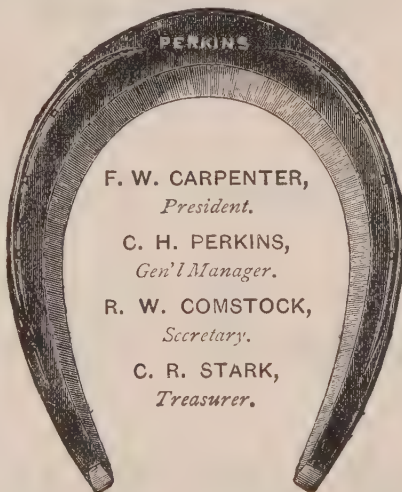
Perkins Snow or Trotting Shoes

Perkins "X L" Steel Shoes

Perkins Extra Light Shoes

Perkins Toe Calks

BLUNT,
MEDIUM AND LONG.



F. W. CARPENTER,
President.

C. H. PERKINS,
Gen'l Manager.

R. W. COMSTOCK,
Secretary.

C. R. STARK,
Treasurer.

Perkins Toe Weight Shoes

LIGHT, MEDIUM AND
HEAVY PATTERNS.

Perkins Side Weight Shoes

RIGHTS AND LEFTS.

Goodenough Horse and Mule Shoes

ARMY, HEAVY AND
WINTER PATTERNS.

Perkins Toe Calks

SHARP,
MEDIUM AND LONG.

PROVIDENCE, RHODE ISLAND, U. S. A.

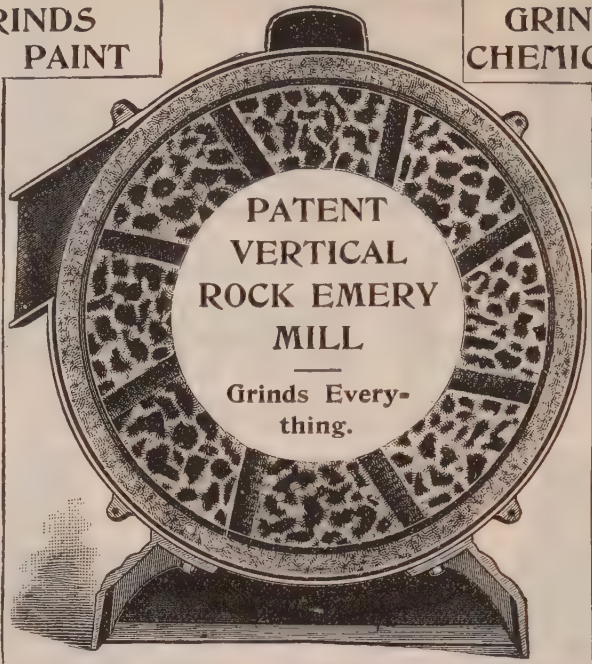
THE MOST RAPID FIRE GRINDER KNOWN.

GRINDS
PAINT

GRINDS
CHEMICALS

DON'T FAIL TO SEE THIS EXHIBIT.

 . . . DURABLE . . .



**PATENT
VERTICAL
ROCK EMERY
MILL**

Grinds Every-
thing.

. . . CHEAP . . .

 N. E. CENTER, GROUND FLOOR, MINING BUILDING.

Grinds
Phosphates

STURTEVANT MILL CO.
Boston, Mass.

Grinds
Cements

THE EDDYSTONE MFG. CO., Limited.

Printed Cotton Goods.

Wm. Simpson & Sons, THE BEST GALIGO, FINE PRINTED FABRICS

IN LATEST COLOR COMBINATIONS AND ANILINE FAST BLACK.

BERLIN PRINT WORKS,

Solid Colors, Turkey Reds, Oil Colors, Satines,
Brocades, Lawns, Fine Dress Linings.

WM. SIMPSON SONS & CO.,

SELLING AGENTS.

PHILADELPHIA,
NEW YORK,
CHICAGO,
BALTIMORE.

THE NEW-YORK SAFETY STEAM POWER CO

BUILDERS OF HIGH GRADE

STEAM ENGINES AND BOILERS

FOR ALL PURPOSES

5000 ENGINES IN USE

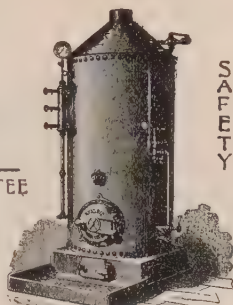
DUPLICATE PARTS
that will fit accu-
rately furnished
from our stock at
once upon receipt
of order

WE GUARANTEE
full rated
power, best
material
and superior
construction

ECONOMY

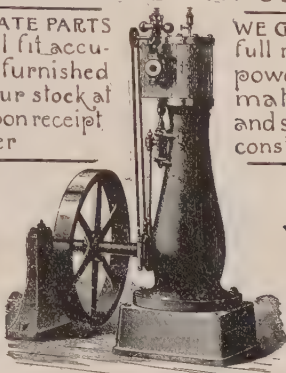


SAFETY



2 TO 12 H.P.
INDEPENDENT
VERTICAL ENGINES
SELF CONTAINED
ALWAYS IN STOCK

3 TO 20 HP.
INDEPENDENT
VERTICAL TUBULAR
BOILERS

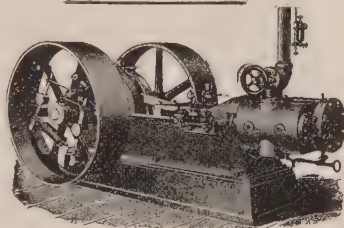


INDEPENDENT
VERTICAL ENGINES
WITH DISC CRANK
15 TO 100 H.P.

BOAT &
MACHINERY



ENGINES AND BOILERS
Mounted on the same base
and connected complete
with Injector, Inspirator
or Pump, ready to run



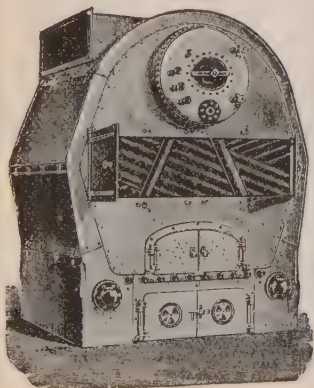
VERTICAL
MARINE ENGINES
WITH LINK MOTION
FOR
STEAM YACHTS & LAUNCHES
ALL SIZES

SUPERIOR HIGH SPEED
• AUTOMATIC • CUT-OFF • ENGINES •
FOR ELECTRIC LIGHT SERVICE •
• FOR GENERAL MANUFACTURING •

VERTICAL - 6 TO 20 HORSEPOWER • HORIZONTAL - 20 TO 200 HORSEPOWER

WATER TUBE BOILERS

A SPECIALTY.



NEW YORK OFFICE,

30 CORTLANDT STREET.

CHICAGO BRANCH,

58 AND 60 So. CANAL STREET.

MILTON THOMAS, AGENT.



WISCONSIN STATE BUILDING.

COPYRIGHTED
1892

FAIRBANKS, MORSE & CO.

First Quality Goods in all Departments.

SCALE DEPARTMENT.

Fairbanks' Standard Scales made for all required uses.

Over 1,000 different modifications.

Brass and Iron Beam of all descriptions.

WINDMILL DEPARTMENT.

Eclipse Windmills, Fairbanks' Steel Mills and Towers,

Tanks, all sizes, Tank Heaters,

Windmill Pumps, Grinding Mills.

STEAM DEPARTMENT.

Fairbanks, Morse & Co.'s Duplex Steam Pumps,

Steam Engines and Boilers, Boiler Feeders,

Feed Water Heaters, Engineers' Supplies.

RAILROAD DEPARTMENT.

Improved Hand and Push Cars,

R. R. Windmills, Tanks and Fixtures,

Stand Pipes, Track Jacks, Track Drills,

Water Stations Erected Complete.

MERCHANDISE DEPARTMENT.

Baggage and Express Barrows, Grain Wagons,

Warehouse and Store Trucks, Letter Presses,

Coffee Mills, Money Drawers, etc.

WATER WORKS DEPARTMENT.

Engineering, Plans and Estimates made.

Material furnished. Plants erected complete.

SALES WAREHOUSES

CHICAGO, CLEVELAND, INDIANAPOLIS, CINCINNATI,

LOUISVILLE, ST. LOUIS, KANSAS CITY, DENVER,

OMAHA, ST. PAUL, MINNEAPOLIS.

LITTLE FALLS, N. Y.
POUGHKEEPSIE, N. Y.
ROME, N. Y.
WYANDOTTE, MICH.
ROSE CITY, MICH.

D. H. BURRELL & CO.

LITTLE FALLS, N. Y., U. S. A.

INVENTORS AND
MANUFACTURERS OF



CHEESE FACTORY,
CREAMERY,
DAIRY APPARATUS
AND SUPPLIES.

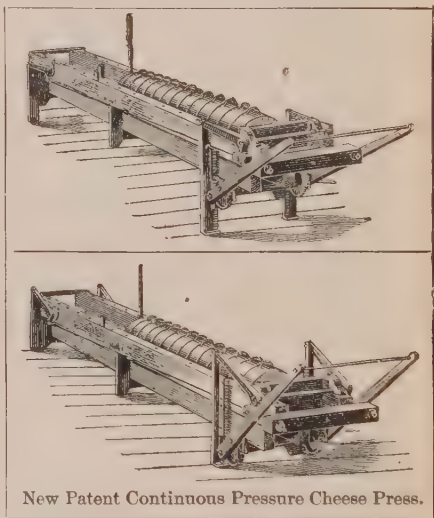
New "Alpha" Delaval Cream Separators

GREATEST CAPACITY, CLOSEST SKIMMING, LIGHT RUNNING.

"B. & W." BOILERS AND ENGINES,
PATENT SEAMLESS BANDAGE,
STANDARD QUALITY CLOTH CIRCLES,
BLEACHED AND BROWN DAIRY CLOTHS,
BRADLEY'S PATENT BUTTER BOXES,
THE UNIVERSAL TUB FASTENER.

MANUFACTURERS OF THE ORIGINAL AND ONLY

STANDARD GANG AND COMBINATION
PRESSES AND HOOPS.



New Patent Continuous Pressure Cheese Press.

Also our new Patent Continuous Pressure Gang Press invention, automatically applying a continuous pressure to the cheese, saving greatly in labor and producing a firmer and closer cheese.

CHR. HANSEN'S DANISH DAIRY PREPARATIONS,
GENUINE DANISH RENNET EXTRACT.
DANISH BUTTER AND CHEESE COLOR.
ALSO, COLUMBIAN BUTTER COLOR.

We manufacture and furnish all Apparatus and Supplies for the Creamery, Cheese Factory and Dairy. Inquiries cheerfully and promptly answered. Catalogues and circulars upon application.

Special attention given to export orders.

D. H. BURRELL & CO., - LITTLE FALLS, N. Y.



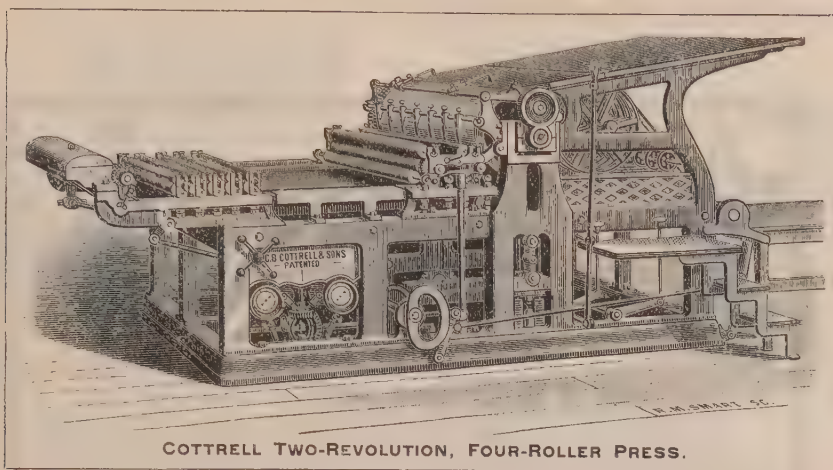
WYOMING STATE BUILDING.



SOUTH DAKOTA STATE BUILDING.

Completed 1893

PRINTING : MACHINERY



COTTRELL TWO-REVOLUTION, FOUR-ROLLER PRESS.

C. B. COTTRELL & SONS PRINTING PRESS MANUFACTURERS

WORKS:

WESTERLY, R. I., U. S. A.

OFFICES:

No. 8 Spruce Street,

NEW YORK.

319 Dearborn Street,

CHICAGO.

. . . MANUFACTURERS . . .

LITHOGRAPHIC PRESSES,

STOP CYLINDER PRESSES,

TWO-REVOLUTION PRESSES,

FLAT BED PERFECTING PRESSES

FOR FINE ILLUSTRATED PRINTING.

ROTARY WEB PERFECTING PRESSES

FOR PRINTING ILLUSTRATED NEWSPAPERS AND MAGAZINES.



HEALTH SUGGESTIONS



YOU NEED EXERCISE—there are several
REASONS WHY

IF YOU ARE A BUSINESS MAN, to clear your brain, to smooth off the rough edges of business cares. The Rambler Bicycle affords a medium *par excellence* for “comfortable exercise.”

IF IN POOR HEALTH, you can regain good health through the judicious use of the Bicycle—the Rambler Spring Frame reduces excessive vibration and makes exercise safe.

IF IN GOOD HEALTH, Bicycle Riding will keep you so. In your children the Bicycle lays the foundation of a healthful and useful life. A good intellect reaches its highest excellence only in a healthy body.

IF YOU ARE A WOMAN, the Bicycle affords a most pleasant means of obtaining exercise, which you, of all others, most need. Riding any Bicycle is exercise—riding Rambler Bicycles is “comfortable and luxurious exercise.”

IF YOU ARE BEAUTIFUL, Bicycle Riding will preserve your beauty. Exercise means health. There is no real Beauty without Good Health.

IF YOU ARE NOT A BEAUTY, you may at least make yourself more attractive. The Bicycle brightens the eye, puts a flush of health on the cheek, takes you out to nature, to the pure fresh air. They are yours; enjoy them—do it “luxuriously” on a Rambler Bicycle.

“Ramblers Suit Everybody”



SPRING FRAME
RIGID FRAME

LARGE FRONT WHEEL
SMALL FRONT WHEEL

CORRUGATED TIRES
SMOOTH TIRES

ROUND SPROCKET
ELLIPTICAL SPROCKET

GORMULLY & JEFFERY MFG. CO.



CHICAGO.

BOSTON.

WASHINGTON.

NEW YORK.

COVENTRY, ENG.

The

MALLEABLE IRON CASTINGS

... FOR ...

Agricultural Implements

... AND ...

RAILROAD WORK

A Specialty.

National



Malleable

Castings

CLEVELAND,

CHICAGO,

TOLEDO,

INDIANAPOLIS.

See Exhibit Car in Transportation Department.

Company



Link-Belt Machinery Co.

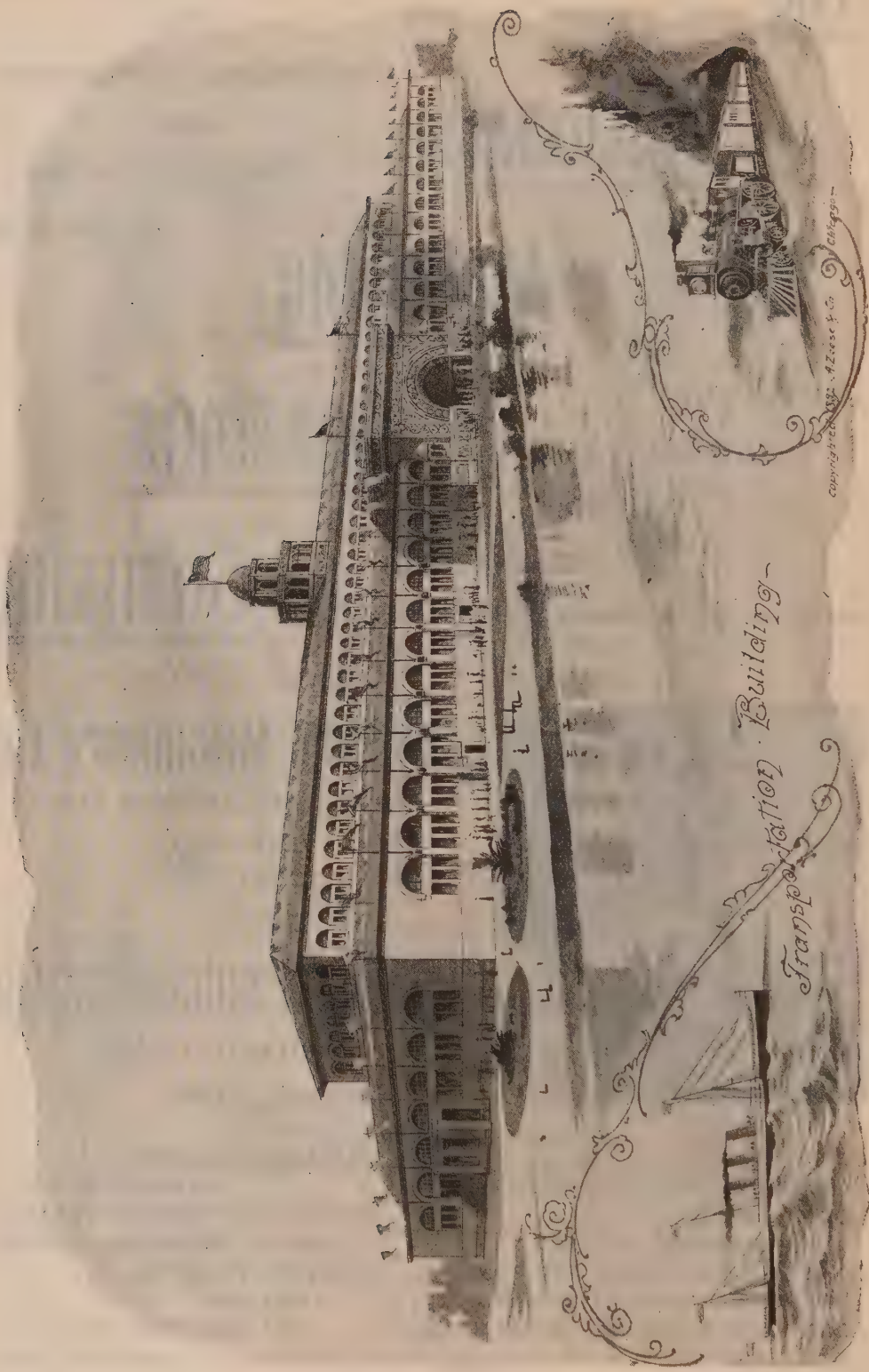
39TH ST. AND STEWART AVE.,
CHICAGO.

Link-Belt Engineering Co.

PHILADELPHIA.
NEW YORK.

ORIGINAL EWART
DETACHABLE LINK-BELTING,
DODGE CHAIN,
SPROCKET WHEELS,
APPROVED ELEVATING AND CON-
VEYING MACHINERY FOR HAND-
LING ANY MATERIAL IN BULK
OR PACKAGE

MANILA ROPE POWER
TRANSMISSIONS,
FREIGHT HANDLING MACHINERY,
SPECIAL MINING MACHINERY,
SHAFTING, PULLEYS,
GEARING,
FRICTION CLUTCHES,
SHEAVES, ETC.



Transportation Building

Copyright 1892, A. Zeece & Co. Chicago

THE ACCELERATOR



The Ideal Street Car.
A Positive Benefit to the Public.



"It is a wonder to me that in the many years of business experience, none of us have struck on the plan before."

CHAS. T. YERKES, President North Chicago Street R. R.



Crowded Platforms not a nuisance to Ladies, Passengers, Conductors, or cause of delay.



Short Stops, Big Loads, Increased Earnings, Larger Dividends, Rapid Loading and Unloading.

Equip your Road to make it Inviting and to Earn Dividends.

NO STANDING ROOM BETWEEN DOOR AND STEP ON PLATFORMS
TO IMPEDE ENTRANCE AND EXIT.

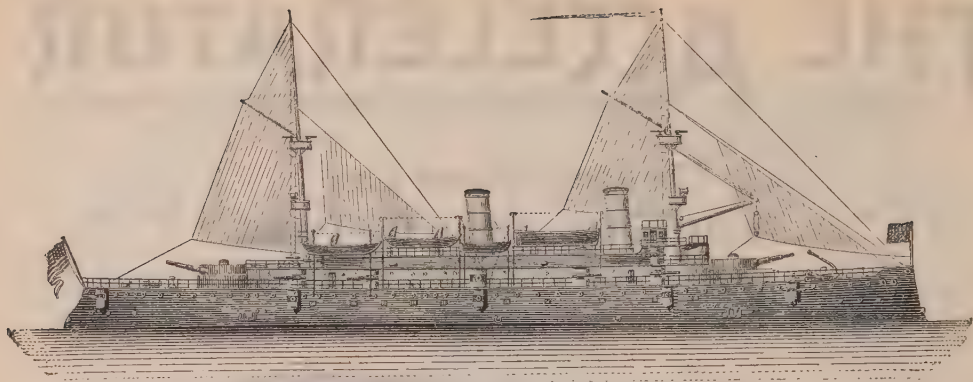


BROWNELL CAR CO.

ST. LOUIS, MO., U. S. A.,

Build all styles of Street Cars.

SEE EXHIBIT IN . . .
TRANSPORTATION BUILDING.



U. S. S. "OLYMPIA."

LAUNCHED NOV. 5, 1892.

TRIAL EXPECTED AUG., 1893.

Length on Gun Deck, 340 ft.
Beam, 53 ft.
Mean draught, normal, 21 ft. 6 in.
Displacement, 5,870 tons.
Indicated H. P., 13,500.



Four 8-in. B. L. R's. in Turrets.
Ten 5-in. B. L. R's. Superstructure.
Fourteen 6-pounder, rapid firing.
Six 1-pounder, rapid firing.
Four Gatling Guns.

SPEED GUARANTEED, 20 KNOTS.

SPEED EXPECTED, 21 KNOTS.

UNION ❖ IRON ❖ WORKS

SAN FRANCISCO, CALIFORNIA.

H. T. SCOTT, President and Treasurer.

IRVING M. SCOTT, Vice-President and General Manager.

J. O'B. GUNN, Secretary.

G. W. DICKIE, Manager.

GEO. E. AMES, Agent.

THESE works for the past forty years have held the leading place among the engineering establishments of the Pacific Coast. Until ten years ago the work was principally that of a general engineering business. In Mining Machinery they have always been, and still are, in the front line of progress. Much of the best machinery, both for mining and reducing ores, in the Pacific states and territories have originated in the Union Iron Works.

Since ship building was added to the business of this company, the works have expanded so that they now cover an area of twenty-three acres. Extensive wharves provide berths for vessels fitting out and undergoing repairs, with two sets of lifting shears, one of 100 tons capacity, the other of 30 tons.

Seven years ago this company opened their new hydraulic lift dock for the use of shipping in San Francisco harbor. This dock is 437 feet long, 62 feet wide in the clear, and has a lifting capacity of 4,000 tons.

Since the opening of the dock over 800 vessels have been lifted, having a gross tonnage of about 1,000,000 tons, without any accident whatever. This dock was designed by the Manager of the works, and built by the company.

The United States Government have entrusted this company with building, so far, five of the best ships in the new navy. The "Charleston," 18 knot cruiser of 3,750 tons displacement; the "San Francisco," 19 knot cruiser of 4,080 tons displacement; the armored coast defense vessel "MONTEREY," of 5,400 H. P., and 4,000 tons displacement; the "OLYMPIA," whose profile heads this page, and the battle ship "Oregon," of 9,000 H. P., and 10,500 tons displacement.

Besides this national work, passenger and freight steamers have been built for the Pacific Mail S. S. Company's China trade, the Puget Sound passenger trade, and the Pacific Coast S. S. Company's coast trade.

This is the only modern ship-building establishment on the western side of the American continent. A complete model of these works, to a scale of one-fourth inch to the foot, can be seen in Section E, Entresol floor of the Transportation Building.

DEPARTMENT G--TRANSPORTATION EXHIBITS.

(RAILWAYS, VESSELS, VEHICLES.)

THE wonderful progress of the nineteenth century is due to improved methods of transportation more than to any other agency. The steamboat, the railway and modern methods of quick conveyance of persons, goods and intelligence—all had their birth in the first half of the century, and have been supplemented and improved to a marvelous degree during the latter half. It has remained for the World's Columbian Exposition to recognize fittingly this distinguishing characteristic of the age by creating a department which is devoted to transportation in all its forms. In order to give the subject a high degree of interest and the greatest educational value it is treated from a historical point of view. There is then also added to what might otherwise seem a mere dry study of machinery, even a flavor of romance. The crude but ingenuously early inventors' realization of the possibility of the future. It will incite the casual visitor to still many portions where the means as primitive as in the earliest days come to us graven on the monuments of antiquity.

The vessels of the ancients are shown pictorially. Examples are found in the reproduction of an ancient racing chariot in an Egyptian mummy pit, Etruscan museum boat found in an ancient and some plaster ruins, showing wheeled vehicles.

while not particularly elaborate or artistic, are well worth careful study as they are in every case from the most authentic sources.

The first attempts at navigation are well illustrated by canoes and rafts which bear many strange names, and which have been gathered from the islands of the sea; the heart of the dark continent; the rivers and lakes of the frontier regions of the Americas; and the frozen regions of the far North. Some of these, as in the case of the Jangada of Brazil and the Champan of the Magdalena river, are so large that they may be shown only on the lagoons, and the smallest dug-out is hardly larger than a good-sized chopping bowl. More picturesque forms abound in the shape of gondolas, daghsas and the high-prowed boats of Norway. The lagoons also bear upon their bosoms the three vessels forming the Columbus fleet, the famous Viking boat of Norway, and, anchored in front of the Golden Door, a Braggaza of the Adriatic flaunts its richly colored sails. Darting back and forth among these forms of other days and climes, a fleet of electric launches, silent but sure, carry the visitor through a scene of pristine Venetian beauty. Agile and skillful gondoliers dodge hither and yon. More slow and cumbrous is the



W. SMITH, CHIEF.

a flavor of romance. The crude but ingenuously early inventors' realization of the possibility of the future. It will incite the casual visitor to still many portions where the means as primitive as in the earliest days come to us graven on the monuments of antiquity.

and the vehicles can only be shown in reproductions to this the exact reproduction of the Scythian found in an Egyptian and now in the at Florence; a toy Etruscan tomb; casts of Roman chariots and other The pictures,

brilliant state barge, and the "Phoenix-boat" of the Japanese Commission excites surprise that the oar should have been abandoned in favor of a silent battery with stored energy.

Within the building again is found still other development in water craft. Innumerable models, accurate in every particular, illustrate the oddities of the marine construction of China, India, Ceylon, Siam and the Malay peninsula. The use of the various forms appears in pictures from original photographs made by the Exposition's own representatives in many lands. A superb Turkish caique is one of the many similar objects of interest.

The growth and present perfection and variety of the merchant marine and the navies of the nations of to-day appear graphically in the shape of hundreds of models of the finest workmanship. The great ship-builders of the world, and especially of that country which has so long ruled the sea, have vied with each other in showing the miniatures of their triumphs. The great steamship lines of the world vary this by dioramas, and other devices, for illustrating life at sea. At one point in the building there arises before the visitor the side of a great Trans-Atlantic liner—or, at least, a section of it sixty feet in length. Entering on the lower deck one may pass through the various rooms and ascend staircase after staircase for five stories, the rooms and their fittings and furnishings being identical with those of the real steamers. And then there are superb collections of sail and row boats, yachts and launches of such graceful lines and elegant finish that one lingers longingly over them and wishes his purse were something fatter.

Rising aspiringly in the southern central court is a huge steam hammer—the fac-simile of that of 125 tons, the largest in the world. It calls attention to the fact that not only the "fruits of peace," but the "peace makers" have here a place. Because naval vessels group properly with merchant marine and pleasure craft—they keep them company and bring with themselves naval armament and equipment. Recent improvements in armor plate and naval ordnance are fully shown and will bear careful scientific study. An important and fascinating portion of the marine exhibit is in the gallery floor, which is reached by elevators at frequent intervals.

These elevators are themselves exhibits of vertical transportation, and although a small fee is charged for the privilege, one should not omit an ascent to the dome of the building by means of one of the eight lifts grouped in the center. The view from the dome is superb and even entrancing. It has also a special value as a means of observing the working of the various railway and water systems within and without the grounds—a scene without a parallel. In coming down one may stop at the upper bridge and go out on the terrace surmounting the Golden Door, where in full view of the beautiful wooded island, central lagoon and the surrounding palaces rest and refreshment may be found at a charming out-of-door café.

One can not fail to note the luxurious and useful modern carriages and other wheeled vehicles, which the most celebrated makers in the world are displaying. Here and there is an "old timer" like the "deacon's one-hoss-shay." There are some which belonged to celebrated men of another day. A Lord Mayor's state coach stands out in a startling contrast with a rude "carreta," made without metal by the untutored hands of Pueblo Indians. There is a gaudy outfit of cart and harness from Palermo, land sledges from Funchal, a calèche from Quebec and a Cuban Volante. The horse, the ox, and the ass appear in various burden bearing capacities, and harness and saddlery abound in most useful and economical forms, as well as in the elegant and even fantastic.

The human pack animal is not forgotten. The cargadores of South America, and the street carriers of the Orient form picturesque groups. Palanquins, traveling hammocks, and sedans from remote corners of the globe, and some from remote times, illustrate how one class of mankind drudges that another may ride in luxury.

Oddly contiguous to these boxes and bags on poles, rise many beautiful pa-

vilions which shelter the pets of the "wheel-men." The bicycle exhibit is found in the beautifully lighted and readily accessible entresol. Several nations have contributed, but the American makers, both for the number and beauty of their displays, are entitled to unstinted praise.

There are choice and rare marine exhibits on the gallery floor, some beautiful dioramas and many exceedingly important engineering models, drawings and maps. The Associated Engineering Societies of Germany occupy the southern gallery with an exhibit which has cost a large amount of work and money—a very large amount when it is considered that the commercial inducement plays only a very slight part of it and that it is intended almost solely as contribution to the engineering advancement of the world.

It is a "far-cry" from the outfit with which an African explorer has pierced the jungles, to a modern "sixty mile an hour" locomotive, and the sumptuous hotels on wheels which it draws. Possibly there is no better illustration of the importance the Exposition has obtained abroad than the fact that it has drawn across the Atlantic such cumbrous articles as cars and locomotives, which can meet no sale here because they were built for and adapted to different conditions—not to mention the heavy tariff, which also blocks the way. There have been interesting exhibitions of railway machinery before, but never one of an international character. The technical student will here find plenty of material for his earnest investigation—and every one must find much of curious interest and valuable information. The large western portion of the building (called "the annex") contains over two and one-half miles of railway tracks. Here are gathered the machinery and appliances used in constructing, maintaining and operating all forms of railways. Railway exhibits are also found to some extent on all parts of the ground floor. It should be explained that each foreign country has deemed it necessary to keep its entire transportation exhibit together in one court or place—a fact which rendered it impossible to exact and maintain a careful classification in the arrangement of exhibits.

The visitor will readily find at one place a long unbroken aisle, on one side of which he will see a complete mahogany trans-continental train of the Canadian Pacific railway, and on the other, a superb locomotive and coaches of the pattern favored in the mother country—sent by the London & North-Western Railway. Close at hand is a huge broad-gauge (7 feet) locomotive, "the Lord of the Isles"—an imposing relic of a system which has now passed away. It is worth while noting that this identical locomotive formed the principal railway exhibit in the first great World's Fair in London in 1851.

The heart of the railway exhibit is a vast historical collection, gathered with infinite pains and great expense by the Baltimore & Ohio railroad and denominated "The Railways of the World." To the completeness of this collection the Department of Transportation Exhibits of the Exposition has contributed to a considerable extent—the idea being to make this the principal historical center. A brief description can not be given. A fairly exhaustive one would require volumes.

Next, to the south, comes the magnificent Pullman exhibit, which affords the opportunity of saying that the three finest complete trains of cars ever built are to be seen on exhibition in this department. There is in the heart of the main building a complete model of the "transportation town" of Pullman. Adjoining it is a model railway ticket office. Then come acres of cars and locomotives and their appliances. A most interesting bit of all this is a contrasting historical exhibit of the Old Colony railroad, which no one should fail to see. The impression formed by the vast collection of locomotives from a "baby elephant" to a veritable "mastodon" is worth experiencing. There are some miniature locomotives also, and some rare reminders of the first whistles which ever shrieked across western prairies.

The Imperial Commissioner for Germany has certainly met with wonderful success in his transportation exhibit. The Postal Museum of Berlin sends its

choicest models; the Prussian State railways send locomotives and cars; there is the largest portion of a great track museum from Osnabrück; an interesting variety of marine models and appliances; and in the gallery the vast and comprehensive engineering exhibit, already alluded to.

The French exhibit is especially strong in the vehicle division, but there are some exceedingly interesting railway exhibits as well, notably the locomotives which are installed in the main building.

As one passes out the southwestern corner of the main building, he comes upon an exhibit of quick-firing machine guns. Just outside the building along the southern line of the Annex is found a great exhibit by the Vanderbilt System of Railways. A beautiful building, the central portion of which is somewhat like a triumphal arch, forms the front of the exhibit looking toward the south, and the passenger department has its interesting display in one of the two rooms of the building. The historical feature is again prominent. The old locomotive "DeWitt Clinton" attached to two of the original passenger cars of the Mohawk and Hudson railroad made familiar by the well-known silhouette pictures, stands in striking contrast with the "Empire State" Fast Express, claimed to be the fastest regular train in the world, and the New York and Chicago limited train of Wagner cars.

Directly across the open court (affording here a broad entrance from the Sixty-fourth street gate) is the elegant model railway station which shelters the elaborate historical and technical exhibit of the Pennsylvania railroad, and forms the entrance to its track exhibit. Here indeed is food for the student. Four tracks are shown of the Pennsylvania standard, with underground and overhead cross-overs for passengers, signal tower, etc., and a suburban "umbrella" station on the further side. The specially constructed car which brought the great Krupp gun from the sea-cast stands here with a "quaker" gun, identical in appearance with the genuine monster.

Further south one comes upon a model railway water station, the street railway exhibition tracks with electric and other motor cars running back and forth; and if the visitor is a railway man he will want to go still further and investigate the switch and signal system of the passenger terminals which here curve into the great station.

The great exhibit of Krupp, of Essen, Germany, which is located in its own building on the lake shore, south-east of the Agricultural Building, belongs to this department also. Together with a large amount of railway material, there is a vast collection of naval and military ordnance and their concomitants. The largest gun in the world (125 tons) is a mighty magnet, drawing every visitor on the grounds to this spot. The successful transportation of this immense weight from Germany to Chicago is something those immediately concerned in may well be proud of.

After a hasty glance at the exhibits of the Transportation Exhibits Department the elegant little steamship building between the Horticultural and the Woman's Buildings may be visited; as also a number of important exhibits located in the open air at the north of the Annex.

The Transportation Exhibits Building is unique in its architecture. Its gorgeous exterior decoration and its superb golden door will identify it at once. Its location on the western bank of the central lagoon, looking upon the wooded island, brings it directly in the highway of greatest travel. Its polychromatic front bears the names of illustrious railway and marine inventors and sculptured groups idealizing the different forms of transportation. The north and south entrance are also elaborate and bear the individual statues of many of the men who brought these things to pass. A peculiar feature of the vast annex is the fact that it was found necessary to carry the Intramural Electric railway over its roof; and the Elevated railway from the city also enters the ground over it. The descent from these aerial stations is at the southwestern corner of the main building.

The main building measures 960 feet front by 250 feet deep. From this extends westward to Stoney Island an enormous annex, covering about nine acres. This is one story only in height. In it may be seen the more bulky exhibits. Along the central avenue or nave the visitor may see facing each other scores of locomotive engines, highly polished, and rendering the perspective effect of the nave both exceedingly novel and striking. Add to the effect of the exhibits the architectural impression given by a long vista of richly ornamented colonnades, and it may easily be seen that the interior of the Transportation Building is one of the most impressive of the Exposition. The building is exquisitely refined and simple in architectural treatment, although very rich and elaborate in detail. In style it savors much of the Romanesque.

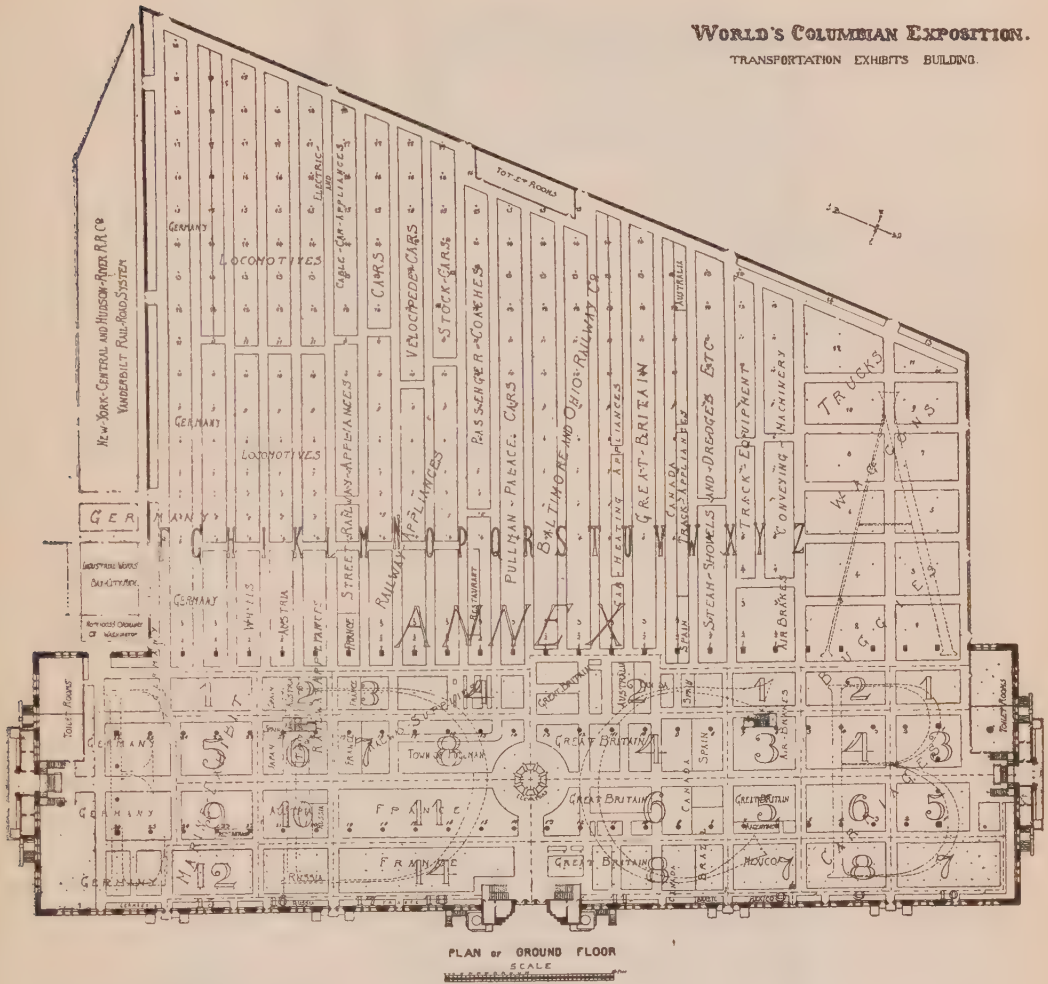
The main entrance consists of an immense single arch, enriched to an extraordinary degree with carvings, bas-reliefs and mural paintings, the entire feature forming a rich and beautiful, yet quiet, color climax, for it is treated in leaf, and is called the Golden Door. The remainder of the architectural composition falls into a just relation of contrast with the highly wrought entrance, and is duly quiet and modest, though very broad in treatment. It consists of a continuous arcade, with subordinated colonnade and entablature. Numerous minor entrances are from time to time pierced in the walls, and with them are grouped terraces, seats, drinking fountains and statues.

The interior of the building is treated much after the manner of a Roman basilica, with broad nave and aisles. The roof is therefore in three divisions. The middle one rises much higher than the others, and its walls are pierced to form a beautiful arcaded clearstory. The cupola, placed in the center of the building and rising 165 feet above the ground, is reached by elevators. The total floor space is nearly twenty acres. A seventy-five-foot transfer table traverses the annex along the western line of the main building. Railway tracks are laid in the annex at right angles to the transfer table. The heaviest locomotives and cars can be run direct from the installation track, which runs alongside the southern end of the building, upon the transfer table, which takes them to their proper tracks inside the building. The length of these tracks is such that an entire train can be shown connected as when in actual use. The annex opens into the main building in such a manner as to afford long and striking vistas down the main avenues and aisles.

The superintendent of the vehicle division was appointed September 1, 1892. His duties were the assignment of space to the exhibitors and taking entire charge of the vehicle division, which consists of all styles of wheel vehicles, bicycles, carriage and saddlery hardware. He is under the direction of the chief of the department to whom he is held responsible for the proper management of his division. The assignment of space to exhibitors was made in the month of October, which is substantially the same as the final allotments, with a few changes. This division consists of the entire north end of the Transportation Building and annex, 200 feet deep, and two-thirds of the gallery in the north end of the building. At the request of the Executive Committee of the Carriage Builders' National Association the chief of the department made it a rule that all exhibitors in this division should cover their floor space with wood carpet and protect their space from the passageways by a brass railing. This has all been complied with by the exhibitors and it presents a very elegant and uniform appearance. The chief of the department also adopted a uniform sign for all exhibitors, consisting of bevel plate glass with the background etched in gold or silver with a shaded letter. Where practical these signs are supported on mounted stands that set in the exhibitor's space. His duties during the Exposition period will be superintendent of the exhibitors and the exhibits in this division, through whom all matters connected with this department will be transacted by the exhibitors. If any matters are to be referred to the chief of the department it is expected to be done through the superintendent.

The offices of the Chief of the Department, Mr. Willard A. Smith, and his

corps of assistants, are on the entresol floor, in the front of the building looking out upon a most novel scene. They are easily reached by stairs or elevators, and in connection with them will be found the rooms which are designed as headquarters from the technical press and for railway men and manufacturers.



COPYRIGHTED 1893,
BY THE

WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO.

KEY TO INSTALLATION.

For the purpose of the installation of exhibits the Transportation Exhibits Building and Annex are divided into sections, lettered from A to Z. Section A is the north end of the Annex; Section B is the north end of the main building; Sections C and D form the central court, and E the south end of the main building. The remaining sections are in the Annex, and consist of aisles running the length of the Annex. Along each aisle is a row of posts, numbered, and the sides of the aisles are indicated as "north" and "south." Thus, an exhibit at "O-N bet. 9 and 10," is on the north side of aisle or Section O, between posts numbered 9 and 10. The sections in the main building are divided into blocks, and the two rows of columns extending the length of the building are numbered. An exhibit located at "A-8" is in Section A, Block 8. An exhibit located "B-4, opp. 3," is in Section B, Block 4, opposite Column 3. These divisions and blocks appear on the plan. The entresol or gallery floor is divided into seven sections, lettered from A to G. The columns are numbered. Exhibits in the gallery are indicated by the abbreviation "Gal." An exhibit located "Gal. E-42" is in gallery, Section E, opposite or near Column 42.

CLASSIFICATION.

TRANSPORTATION DEPARTMENT (G).

TRANSPORTATION—RAILWAYS, VESSELS, VEHICLES.

GROUP 80.

RAILWAYS, RAILWAY PLANT AND EQUIPMENT.

- Class 499. Railway Construction and Maintenance—Maps, profiles, etc. Grading, track-laying and ballasting machinery. Samples of Standard Permanent Way. Systems of drainage. Ballast, culverts, ties, methods of preserving ties. Rails, rail fastenings, frogs, crossings, switches, etc. Cattle guards. Railway bridges, trestles, viaducts, with models and drawings. Tunneling, with machinery, models, maps. Methods of constructing, lighting and ventilating tunnels. Turn-tables and transfer-tables. Water supply and machinery and fixtures used by railroads in connection therewith. Track tools. Systems of maintenance. Snow sheds and other protection against snow. General plans, elevations and models of stations and other railroad structures.
- Class 500. Railway Equipment—Locomotives for passenger and freight service. Locomotive appliances—head lights, bells, whistles, brake valves and apparatus, etc., plans, drawings and photographs of locomotives and locomotive shops.
 Passenger cars—Mail, baggage and express coaches, drawing-room, parlor, dining, officers' and private cars, etc. Passenger car furnishings and appliances.
 Freight cars—Box, caboose, stock, horse, milk, refrigerator, and other varieties. Working cars—sweeping, ditching, wrecking, etc.; snow plows, hand, inspection, push and velocipede cars, baggage barrows and trucks. Freight car appliances of all descriptions. Plans, drawings and photographs of cars and car works.
- Class 501. Railway Operation—Purchasing department. Methods of purchasing, storing and distributing material and disposition of condemned material. Railway stationery. Mechanical Department.—Organization. Records, plans and management of shops, devices for coaling locomotives, etc. Testing laboratories. Machines, apparatus and methods of testing.
 General train management—Dispatching, signaling, etc. Speed indicators and recorders. Interlocking switches and signals, Block systems, etc. Crossing protection by gates, signals, etc. Wrecking tools and appliances. Plans of yards and methods of storing, cleaning and keeping cars. Car interchange and inspection. Systems of accounting, records, tracers.
 Railway employes—Methods of testing for color-blindness, etc. Uniforms, organizations, etc. Railway sanitation and surgery and appliances used therein.
- Class 502. Railway Management—Legal department, treasury and accounting departments, passenger department. Advertising. Tickets, ticket cases, punches, baggage checks, etc. Freight department, methods of rate-making, soliciting, handling, billing, etc.; plans, arrangements and appliances for handling and housing of freight. Freight-handling machinery, track scales, apparatus for transferring grain from car to car. Traffic Associations, their objects, methods, etc.
- Class 503. History and statistics, exemplified by exhibits of old locomotives, cars, track material and other relics. Railway law and legislation. Railway technical engineering and mechanical associations. Railway literature.

GROUP 81.

STREET CAR AND OTHER SHORT LINE SYSTEMS.

- Class 504. Cable roads and cars. Construction, equipment, methods of operation. Grips and other appliances.
- Class 505. Electric railway cars. Systems of track construction, equipment and supplies for electric roads, methods of operation, appliances and furnishings.
- Class 506. Cars for street railways or tramways operated by horse-power or other means of propulsion not specified. Construction. Equipment and supplies. Methods of operation.
- Class 507. Elevated and underground railways. Plans, models, and maps, showing systems of construction. Systems of operation and maintenance.

GROUP 82.

MISCELLANEOUS AND SPECIAL RAILWAYS.

- Class 508. Mountain railways, spirals, switchbacks, rack rails and all systems for climbing inclines, ship railways, multiple speed railways (moving platforms and sidewalks), gravity roads, sliding railways, plans, profiles, drawings, photographs and models.

GROUP 83.

VEHICLES AND METHODS OF TRANSPORTATION ON COMMON ROADS.

- Class 509. Hand-barrows, wheel-barrows, trunk and barrel-trucks.
- Class 510. Carts, trucks, drays, farm wagons, garden truck wagons.
- Class 511. Freight wagons and other heavy wagons for special purposes, beer wagons, express wagons, wagons for moving heavy objects, as timbers, stone, iron, etc. Sprinkling carts (for fire engines and ladder trucks see Group 70).
- Class 512. Large wagons for pleasure parties, picnic parties and excursions, "breaks," "barges," "wagonettes," etc.
- Class 513. Omnibuses, herdicks, cabs, hansoms, etc.
- Class 514. Drags, Concord leather spring coaches; mud wagons for mail, express and passenger service.
- Class 515. Pleasure carriages, coaches, Victorias, Broughams, dog carts, etc.
- Class 516. Light pleasure carriages, buggies, phaetons, etc.; trotting wagons and sulkies.
- Class 517. Sleighs, sleds, cutters, toboggans, snow shoes, etc.
- Class 518. Steam and electric carriages, and all vehicles for carrying passengers on common roads operated by other than horse-power.
- Class 519. Ambulances for special purposes—for the sick and injured. Hearses.
- Class 520. Bicycles, tricycles and the appurtenances.
- Class 521. Rolling chairs for invalids and others, baby carriages, etc.
- Class 522. Wagon and carriage woodwork, hardware and fittings.
- Class 523. Harness, saddlery, robes, whips and accessories of the stable.

GROUP 84.

AERIAL, PNEUMATIC AND OTHER FORMS OF TRANSPORTATION.

- Class 524. Transportation of letters and parcels in pneumatic tubes.
- Class 525. Shop-fittings for the transportation of parcels and money.
- Class 526. Balloon transportation and captive balloons for observation and experiment.
- Class 527. Passenger elevators and lifts

GROUP 85.

VESSELS, BOATS—MARINE, LAKE AND RIVER TRANSPORTATION.

- Class 528. Sailing vessels and boats. Sailing vessels used in commerce, pilot boats, fishing vessels, sailing yachts, ice boats, ship's boats, pleasure boats, canoes and small boats of all kinds propelled by sails, oars or paddles. Models, designs, drawings, descriptions, specifications, photographs, paintings, etc.
- Class 529. Steamships and all vessels propelled by steam, electricity or motive power other than sails, oars or paddles. Ocean steamships, coasting, lake and river steamers. Tank steamers, cable steamers, steam pilot vessels, steam fishing vessels, steam fire, police and patrol boats, steam schooners, tow-boats, steam yachts, steam launches, naphtha launches; vessels designed for jet propulsion or to be propelled by any unusual device. Models, designs, etc.
- Class 530. Vessels, boats and floating structures for special purposes. Docks and other receptacles for vessels and structures used for docking or hauling out vessels or boats. Transports for carrying railway trains or cars, barges, canal boats; coal rafts and coal boxes; water boats, dredges, floating derricks, elevators, etc. Dry docks and marine railways. Models, designs, drawings, etc.
- Class 531. Marine mechanical appliances. (For nautical instruments, see Group 151.) (For marine engines, boilers, pumps, condensers and appurtenances, see Group 69.) Devices for propulsion, devices for obtaining forced draft, steam capstans, windlasses, deck winches, appliances to facilitate loading and discharging cargoes, steering apparatus; marine electric motors, electric indicators, engine room and bridge signal systems and apparatus; boat-lowering and detaching apparatus, speed indicators and speed registers, appliances for laying, picking up and repairing ocean telegraph cables, etc.
- Class 532. Construction, outfit, equipment and repair of vessels.—Methods, articles, fittings or appurtenances. Methods and materials used; special designs for hull or fittings; plates, cellulose, woodite, etc.; water-tight compartments, rudders, masts and spars, rigging; anchors, chains and cables; hawsers, ropes, cordage, wire rope, etc.; sails, blocks and tackles, oars, etc.
- Class 533. Methods of lighting, heating, ventilation and refrigeration of ships.
- Class 534. Protection of life and property and communication at sea. Harbors; light-houses; buoys and similar aids to navigation and all pertaining thereto; life-saving service, boats, rafts, belts, etc.; precautions against fire aboard ship and devices for extinguishing it; storm and coast signals; marine signals. Models, plans, samples, etc.
- Class 535. Wrecking apparatus. Sub-marine armor and divers' appliances, pontoons for raising vessels, equipment for wrecking-steamers, etc.

- Class 536. Miscellaneous. Trophies of yacht and boat clubs, relics of merchant marine and river transportation, relics of arctic and other exploration, seamen's associations, uniforms and designations of rank, flags and ensigns of merchant marine, yacht clubs, etc., designs, maps, charts, boats.

GROUP 86.

NAVAL WARFARE AND COAST DEFENSE.

- Class 537. Armored vessels. Battle-ships, rams, cruisers, coast defense ships. Models, designs, drawings, descriptions, specifications, photographs, paintings, etc.
- Class 538. Unarmored vessels. Frigates, sloops and gun vessels, cruisers, dispatch vessels and tenders, torpedo vessels and torpedo boats, sub-marine boats, public vessels, for special service, revenue vessels, surveying vessels, etc. Man-of-war boats, etc. Models, designs, etc.
- Class 539. Ships and boats of war of barbarous and semi-civilized nations. Models, drawings, photographs, etc.
- Class 540. Models and relics of famous ships of war, relics of naval battles, etc.
- Class 541. Training ships, naval schools, naval institutes, naval reserve, etc.
- Class 542. Guns and armor, and adjuncts and appliances of naval warfare (see also Group 113). Guns, armor, torpedoes, small arms for naval use, projectiles and ammunition, fuses, sub-marine mines, methods, devices, fittings or appliances designed for use in naval warfare and coast defense.

WESTERN WHEEL WORKS

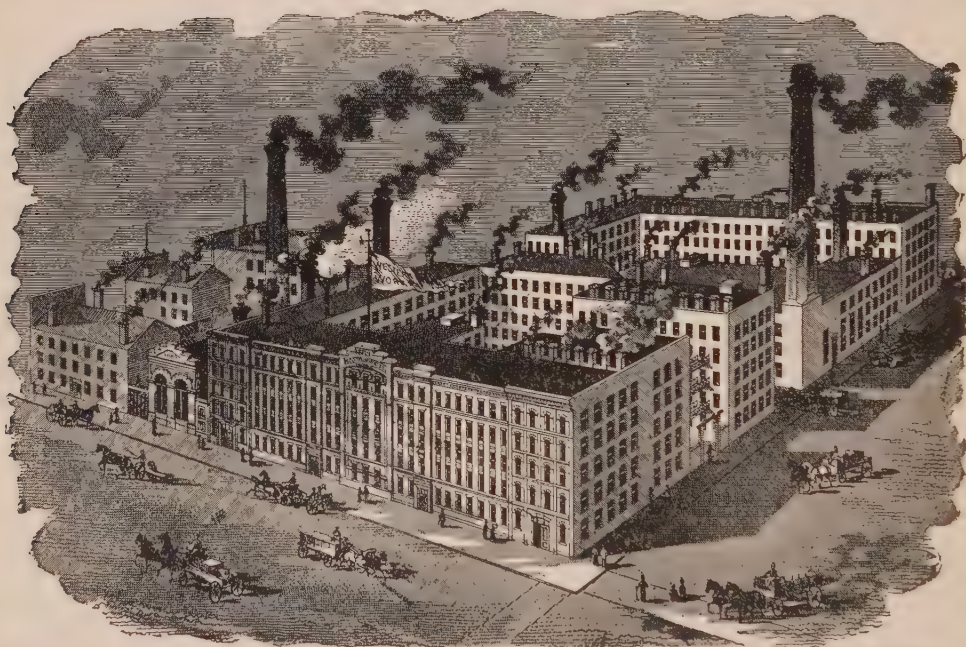
MANUFACTURERS
CHICAGO



BLACKHAWK.



JUNO.



COMB. JUNIOR.



CINCH.

OFFICE AND WORKS: Wells, Schiller and Sigel Streets, CHICAGO.

Department G.--Transportation--Railways, Vessels, Vehicles.

UNITED STATES.

GROUP 80.

Railways, Railway Plant and Equipment.

1. Acme Railway Appliance Co., Boston.
Electric train signal apparatus.
M-N-5 500
2. Adams, Frederick U., Chicago. Model of engine, tender and cars. M-N-10 500
3. Adams & Westlake Co., Chicago.
Railway car trimmings and lighting appliances.
D-7-18 500
4. Alexander, R. E., Forest City, Pa.
a Railroad tie. X-N-10 & 11 499
b Car replacer. 500
5. Allen, C. O., & Wellman, W. H., Pullman, Ill. Model of combination coach, dining car and sleeper.
L-N-11 500
6. Allen Paper Car Wheel Company, Chicago. Paper and metal center wheels.
H-S-3 500
7. American Balance Slide Valve Company, San Francisco. Balance slide valve. O-S-3 500
8. American Grain Door Company, Chattanooga, Tenn. Model of box car body.
N-N-4 500
9. American Refrigerator Transit Co., St. Louis. Refrigerator car. P-S-5 500
10. American Car, Truck and Supply Co., Chicago.
a High speed hand drill. 499
b Trucks; coupler; bearings; springs. 500
11. American Nut Lock Company, St. Louis, Mo. Nut locks and track washers.
X-N-8 499
- 11a. American Railway Water Co., Chicago. Model of automatic railway water station and pump. M-N-15 500
12. American Steel Wheel Co., Garford, N. Y. Steel car wheels. J-bet. 3-4 500
13. Anglo-American Refrigerator Car Company, Chicago. Refrigerator car.
O-N-5 500
14. Arcus, Sinclair, Chicago. Hand-car hoist. M-N-4 499
15. Arms Palace Horse Car Company, Chicago. Cars for horses. P-S-14 & 16 500
16. Ashton Valve Co., Boston, Mass. Locomotive safety valves and gauges.
I-N-11 500
17. Austin, F. C., Manufacturing Company, Chicago. Grader, ditcher and ore breaker. A-10 499
18. Automatic Interchangeable Car Coupling Company, Chicago. Car couplers.
O-N-3 500
19. Baldwin Locomotive Works, Philadelphia. Locomotives.
K-N & K-S, 4 to 14; aisles Q & R; outside. 500
20. Baltimore & Ohio Railroad Co., Baltimore. Historical showing of the development of the railroad and locomotive, R. N. S. & T. 503
21. Barr, J. N., West Milwaukee. Contracting chill, wheels and grinder.
H-N-3&4 500
22. Bass Foundry & Machine Works, Fort Wayne, Ind.
a Car wheels, car and engine castings. I-S-3 500
b Electric motor forgings. 505
23. Bass, J. H., Chicago. Locomotive and car wheels; castings. K-N-1 500
For exhibit see page --.
24. Bethlehem Iron Company, South Bethlehem, Pa. Steel billet and rail fractures.
G-3-Ex-2; K-N, L-8, 1 499
25. Bird, F. W., & Son, East Walpole, Mass. Waterproof fabrics for roofing railway cars, etc. M-N-7&8 500
26. Blakely, John & Son, Philadelphia. Thread waste. M-N-6 500
27. Bloomsburg Car Company, Bloomsburg, Pa. Beamless brake car and rotary dump cars. M-S-15 500
28. Boies Steel Wheel Company, Scranton, Pa. Iron wheels; sections of wheels.
H-N-4 & I-S-4 500
29. Bogue & Mills Mfg. Co., Chicago. Crossing guards, pneumatic lever and cable crossing gates.
(North of annex.) 501
30. Bowen, Emmer, Los Angeles, Cal. Car coupler. O-N-4 500
31. Boyden Brake Company, Baltimore. Air brake equipments for cars and locomotives. X S-2-3 500
32. Brooks, E. J., & Co., New York. Freight car sealing devices. P-S-4 501
33. Brooks Locomotive Works, Dunkirk, N. Y. Locomotives.
I-S-19—I-N-18 500
34. Brown's M. C. B., Emergency Link Car Coupler Company. Coupler on trucks. P-S-3 500
35. Buckeye Automatic Car Coupler Company, Columbus, Ohio. Car coupler. P-S-3 500

DEPARTMENT G.—TRANSPORTATION.

36. Bucyrus Steam Shovel & Dredge Co., Bucyrus, Ohio. Shovels; buckets, models and photos. W-N-4-8 499
37. Burnham & Duggan Railway Appliance Company, Boston. Switches, chairs, etc. W-N-3-4 499
38. Burrowes Car Shade Company, Portland, Me. Shades for railway passenger coaches. K-N-bet. 3&4 500
39. Burton Stock Car Company, Boston. Horse and cattle cars. O-N-13-15 500
40. Bush Cattle Guard Company, Kalamazoo, Mich. Cattle guards. Y-S-9-10 499
41. Butler Drawbar Attachment Company, Cleveland, O. Drawbar attachments. O-S-10&11 500
For exhibit see page 824.
42. Campbell, Joseph H., Chicago. X-N-9
a Rail joints and chairs. 499
b Side bearings. 500
43. Canda Cattle Car Company, Chicago. Stock car. O-N-11-12 500
44. Canda Manufacturing Company, Carteret, N. J. Chilled wheels. O-N-10-11 500
45. Carlisle M'f'g Co., Carlisle, Pa. Frogs, switches, crossings, switch stands and track appliances. WS. 8&9 499
46. Chapman Jack Company, Cleveland, O. Jack screws. O-S-10 501
For exhibit see page 824.
47. Chicago Car Seal & Manufacturing Co., Chicago. Car seals, locks, dies, tags, etc. P-S-4 500
- 47a. Chicago, Milwaukee & St Paul Ry. Co., Chicago. A light and heat tender. M-N-12 500
48. Chicago, Burlington & Quincy R R. Co., Aurora, Ill. Dynamometer car. MN 13-14 500
49. Chicago & North-Western Ry Company, Chicago. Locomotive "Pioneer," the first ever run in Chicago. H-S-19 503
For exhibit see page 641.
50. Chicago Railway Equipment Co., Chicago. Metal brake beams. Y-N-4 500
51. Chicago Scale Co., Chicago. Railroad track scale, 60 tons. M-N-9 502
52. Clark, A. H., Company, Chicago. Automatic piston packings. I-S-3 500
53. Clark, E. Warren, Columbia, Tenn.
a Exhibit car. NN. 5 to 7 500
b Locomotive, The "General," captured by "Andrews' Raiders." 503
54. Clarke, F. H., Springfield, Ohio. Safety spring steel car wheel tender. O-N-5 500
55. Cleveland Frog & Crossing Co., Cleveland, Ohio. Switches, crossings and frogs. W-S-4 499
56. Coale Muffler & Safety Valve Co., Baltimore. Locomotive and steam boiler specialties. N-N-3-4 500
57. Coburn Trolley Track Manufacturing Company, Holyoke, Mass. Hangers and fixtures for car doors. L-S-11 500
59. Consolidated Car Heating Company, Albany, N. Y. Car heating and lighting appliances. U-S-1 500
60. Cooke Locomotive & Machine Co., Paterson, N. J. Freight and passenger locomotives. K-N-15-18 500
61. Cosper, W. H., Company, Chicago. Metallic weather strip for cars. P-N-6 500
62. Crane Company, Chicago. Air brakes and material. X-N-4 500
For exhibit see page 486.
63. Crane, Joseph J., Summertown, Tenn. Model of cross tie and securing plate. X-N-9 499
64. Cregier, Dewitt C., Jr., Chicago. Electric train signal. N-S-3 500
65. Culp Wahl M'f'g Co., Columbus, Ohio. Semaphore. YN. 6&7 500
66. Cumberland Valley Railroad Company, Chambersburg, Penn. Relief map of Cumberland Valley. D-4-16 502
67. Cushion Car Wheel Company, Indianapolis, Ind. Car and locomotive wheels and truck. K-N-3 500
68. Deitz, Geo. A., Olden, Mo. Car door, seal lock, etc. M-N-18 500
69. Deitz Draw-Bar Co., Denver, Col. Automatic car couplers. MS. 12&13 500
70. Detroit Bridge & Iron Works, Detroit, Mich. Locomotive turn-table. M-N-16-17 499
71. Detroit Steel & Spring Co., Detroit, Mich. Locomotive, driving trucks, tender counterbalance, connection and tender springs. I-S-12-18 & I-N-11-18 500
72. Dickson Car Wheel Co., Houston, Tex. Car wheels. HN. 3&4 500
73. Drexel Railway Supply Company, Chicago.
a Drills. O-N-1 499
b Car couplers, journal box covers, car replacers, etc. P-S-1 500
74. Duff Manufacturing Company, Alleghany, Pa. Compound lever jacks. (Outside north of Annex.) 501
75. Eastman Freight Car Heater Company, Boston. Refrigerator, heater and ventilator cars. P-S-12-13 500
76. Eclipse Wind Engine Company, Beloit, Wis.
a Railroad water station; track tools. (Outside north of Annex.) 499
b Wrecking frog. 501
77. Elliott Car Company, Gadsden, Ala. Freight car. O-S-15 500
78. Ensign Manufacturing Company, Huntington W. Va. O-N-6-10
a Flat, gondola and cattle cars; car wheels, axles, snow plow, etc. 500
b Car wheel grinding machine and chills. 501
79. Eureka Coupler & Buffer Co., Minneapolis, Minn.
a Rail joint. MS. 13 499
b Steel coupler. 500
80. Ewald Iron Company, St. Louis. Boiler heads; fire-box material. H-N-3-4 500
81. Fairbanks, E. & T., & Co., St. Johnsbury, Vt. Railroad track scale. (Outside north of Annex.) 502
For exhibit see page 769.
82. Fisher, Clark, Trenton, N. J. Rail joints and track jacks. W-N-6 499
83. Fox Solid Pressed Steel Co., Chicago. Flat cars. O-S-4 500
84. Frame, Nathan T., Jamestown, Ohio.
a Railroad rail chairs. X-N-9 499
b Car couplers. 500
85. Frank Brady, Chicago. Railroad tricycle. X-N-8 500

UNITED STATES.

86. French, A., Spring Company, Pittsburg, Pa. M-N & N-S-1-2
a Nut lock and washers. 499
b Elliptic and spiral springs. 500
87. Frosts Veneer Seating Company, New York. D-8-16
a Car ceilings and seats. 500
b Settees, etc., for depots; panels. 501
88. General Electric Company, New York.
a Transfer table motors and controllers in service, etc. Dept. G
b Plans and models of railway structure. Dept. J 499
c Electric locomotives. Dept. G 500
d System of stops and signals (in service Intramural Railway). 501
e System of tickets. (Depot, Intramural Railway.) 502
89. Goodwin, J. M., Chicago. Dump car. Y-S-11 500
90. Gold Car Heating Company, N. Y. Car heating apparatus. U-S-7 500
91. Gordon & Hamilton, Concord, N. H. Automatic side door latches for coal cars. M-N-10-11 500
92. Gould Coupler Company, Buffalo, N. Y. Couplers. O-N-2 & 3 500
93. Gould, Wm. F., Des Moines, Ia. *a* Supplies for railway tracks. W-N-8 and 9 499
b Slide valve for steam engines. 500
94. Greer, Howard, & Co., Chicago. Railway track appliances. W-N-6 499
95. Griffin Wheel & Foundry Co., Chicago. Car wheels. Multiple Speed Ry. on pier, Intramural Ry. Dept. J 499
96. Guinn, John A., Perry, Ia. Automatic railway time and danger signal. K-N-3 501
97. Hale & Kilburn Manufacturing Co., Philadelphia. D-3-18
a Railroad station seats. 499
b Railroad car seats, seat springs, folding beds. 500
98. Harlan & Hollingsworth Co., Wilmington, Del. Railway passenger car equipment. O-S-8-15 500
99. Harvey Steel Car & Repair Works, Harvey, Ill. Gondola, box, freight and oil tank cars. O-S-4 to 8 500
100. Heinze, Herman, Chicago. Wall map. D-4-16 503
101. Hicks Stock Car Company, Chicago. Stock car. O-S-11 500
102. Hinson Car Coupler Co., Chicago, Ill. Automatic carcoupler. MS. Bet. 13&14 500
103. Holman, D. F., Chicago. Sketch of railway track laying machine. Wall, opp. X-S 499
104. Howlett, James, Irvington, N. J. Car seals and attachments. N-N-4 500
105. Hunt, C. W., Company, New York. Machinery for handling material. Y-N-8 & Z-S-8 501
106. Hutchins Refrigerator Car Company, Chicago. Refrigerator cars. P-S-7-8 500
- 106a. Illinois Central Railroad Co., Chicago. Locomotive (Mississippi) and tender, built in 1863 and strap rails on timbers. M-N-14 503
107. Industrial Works, Bay City, Mich. Steam cranes. J-2 499
108. Invincible Car Coupler Company, Des Moines, Ia. Mounted car couplers. P-S-3 500
109. Jackson & Sharp Company, Wilmington, Del. Passenger coaches. Q-S-6-7 Intramural R. R. 500
110. Jackson & Wooden, Berwick, Pa., Freight car trucks. C-1 500
111. Jerome, C. C., Chicago. Packing glands, fittings and supplies. O-S-3 500
112. Jarvis Spencer Co., Baltimore, Md. Curtain roller for windows of railway cars. KN. 3&4 500
113. Jewett Supply Company, Boston. Car body and truck bolsters; anti-friction device; elevated railway. O-N-3 and Intramural railway 500
114. Johnson R. R. Signal Company, Rahway, N. J. Grade crossing signal. C-6-8 501
115. Jones, Thomas D., Car Construction Co., Chicago. Nut locks and spur locks. OS. 9&10 500
116. Jull Manufacturing Company, Brooklyn, N. Y. Snow excavator M-S-10 500
117. Kalamazoo R. R. Velocipede & Car Co., Kalamazoo, Mich. N-N-10
a Steel surface cattle guard. 499
b Velocipede cars; wheels. 500
118. Keller Printing Company, New York. Railroad tickets, dating machines, cancelling apparatus, ticket sellers. M-N bet. 5 and 6 502
119. Kellogg, R. D., Des Moines, Iowa. Stock guard for railroads. Y-S-9&10 499
120. Keystone Seal & Press Co., New York. Car seal and lock; sealing press. M-N-7-8 500
121. Kilmer M'fg Co., Chicago. Automatic pipe coupler for railway cars. Y-7&8 500
122. King Bridge Company, of Cleveland, O. Photographs of metal bridges and structural work. D-4-15 499
123. King, Charles B., Detroit, Mich., Iron brake beams. P-S-7 500
124. Krehbiel Palace Car Company, Cleveland, Ohio. Parlor, chair and sleeping coaches. P-N-12 500
125. Lehigh Valley R. R. Co., South Bethlehem, Pa. Passenger engine, coach, box and coal car; section of track. 499
126. Leslie Bros. Manufacturing Company, Paterson, N. J. Snow plows. M-S-6-9 500
127. Lima Locomotive & Machine Company, Lima, O. Logging locomotive and car. H-N&I-S-11 500
128. Link Belt Machinery Company, Chicago. Labor saving machinery. Z-7 502
 For exhibit see page 775.
129. Live Poultry Transportation Company, Chicago. Live poultry car. O-S-16 500
130. Marion Steam Shovel Company, Marion, Ohio. Steam shovel, hoisting machinery and ballast unloader. W-N&X-S 499
131. Mason Air Brake & Signal Company, Chicago. Railway air brakes and air train signalling apparatus. Z-S-1-2-3 500
132. Mather's Humane Stock Transportation Company, Chicago. Stock car. O-S-13 500
133. McAndrews, James, Chicago. Journal brasses, locomotive bells, etc. P-S-3 500

DEPARTMENT G.—TRANSPORTATION.

134. **McConway & Torley Co.,** Pittsburg, Pa. Passenger platforms and couplers. D-4-17-18 500
135. **McCormick & Schlesinger,** Emporia, Kas. Nut lock. W-N-5 500
136. **McGuire Manufacturing Company,** Chicago. L-S-12&15
 a Door for grain freight car. 500
 b Automatic switch stand. 501
137. **McKee, Fuller & Co.,** Catasaugua, Pa. Steel tired wheels. I-N-3-4 500
138. **McSherry Mfg. Co.,** Dayton O. Railroad and lifting jacks. N. past 4 501
139. **Mechanical Manufacturing Company,** Chicago. Bumping posts. J-4 with N. Y. C. RR. 499
 For exhibit see page 878.
140. **Merchants Dispatch Transportation Company,** New York. Refrigerator car. P-S-5-6 500
141. **Merrill, W. B., & Co.,** Boston. Metallic packing. O-S-3&4 500
142. **Merrill-Stevens M'fg Co.,** Niles, Mich. Cattle guard Y-S-9 499
143. **Mertsheimer, Frederick,** Cheyenne, Wyo. Car movers. N-S-3 501
144. **Michigan Railway Supply Company,** Detroit, Mich. Brake beams; doors; pressed steel articles. X-N-7&Y-S-7 500
145. **Morison, Geo. S.,** Chicago. Model of bridge. D-4 opp. 15 499
146. **Morris Box Lid Company,** Pittsburg, Pa. Journal box lids. M-N-1 500
147. **Morton Safety Heating Company,** Baltimore. Steam car-heater. N-N-13 500
148. **National Car Heating Company,** Chicago. Car heating apparatus. U-S-9 500
149. **National Car Ventilating Company,** Chicago. Ventilated fruit car. N-N-16 500
150. **National Hollow Brake Beam Company,** Chicago. Metal brake beams. Y-N-4 500
151. **National Machinery Co.,** Tiffin, Ohio. Rock and ore crusher and working model of same. X-S-9 499
152. **National Malleable Castings Company,** Cleveland, Ohio. Freight car, couplers and castings. O-S-10 500
 For exhibit see page 775.
153. **National Car Coupler Co.,** Chicago. Automatic car couplers. O-N-3-4 500
154. **National Railway Spring Company,** Oswego, N. Y. Car springs. O-S-9 500
155. **National Surface Guard Company,** Chicago. Cattle guards. Y-S-8 499
156. **Nelson Morris & Co.,** Chicago. Refrigerator car. N-N-17 500
157. **Nevens Flanger Company,** Portland, Me. Box car with flange scraper. I-N-10 500
158. **New Jersey Steel & Iron Co.,** Trenton, N. J. Models of railroad bridges; iron and steel construction material. YN. 5&6 499
159. **New York Air Brake Company,** New York. Air brakes. C-I-6 500
160. **New York Car Wheel Works,** Buffalo, N. Y. H-N-3
 a Car wheels and axles. 500
 b Testing apparatus and machinery for treating chilled articles. I-S-3 501
161. **New York Central & Hudson River Railroad Co.,** New York.
 a Section of the road-bed and track, with views. N. Y. Cen. Ry. Building, south of annex. 499
 b Motive power and rolling stock. 500
 For exhibit see page 825.
162. **Noble Nut Lock & Washer Co.,** Pittsburg, Pa. Nut locks and washers. M-N-1 499
163. **Northern Pacific Railroad Company,** St. Paul, Minn. Cars for exhibit of natural products. P-N-7 500
164. **North-Western Equipment Company,** Chicago. Brake beam, car doors and journal box lid. X-N-7 500
165. **Northwestern Wheel & Foundry Co.,** St. Paul, Minn. Cast iron car wheels. HN. 3&4 500
166. **Norton, A. O.,** Boston. U-S-3
 a Track jacks. 499
 b Screw jacks. 501
167. **Nowlin Safety Switch & Signal Co.,** Chicago. Switch and signal and model. Y-S-10 501
168. **Odell Automatic Switch Company,** Bradford, Pa. Railway switches. X-N-10 499
169. **O'Hara, J. H.,** Chicago. Air brakes. Z-3 500
170. **Old Colony Railroad Company,** Boston. M-N & N-S-5
 a Passenger locomotive, coach and coal car. 500
 b Locomotive built in 1858; passenger coach built in 1835. 503
171. **Paige Car Wheel Company,** Cleveland, Ohio. Car, engine and tender wheels. M-N, N-S, bet. 3&4 499
172. **Parker, James N.,** Elkhart, Ind. Block system of signals. G-N-1 499
173. **Parks, C. Wellman, Troy, N. Y.** Model of track construction. M-N-4 499
174. **Peoria Steel & Iron Co.,** Peoria, Ill. Nuts, bolts, etc. C-2-8 499
175. **Pennsylvania Railroad Company,** Altoona, Pa.
 a Refrigerator, stock, freight and passenger cars. N-S-12 500
 b Suburban station with foot-bridge, etc. Penn. Ry. Bldg. 501
176. **Philbrick, Frank A.,** Chicago. Bridge gate. X-N-10 501
177. **Pittsburg Locomotive & Car Works,** Pittsburg, Pa. Locomotives and tenders. I-S&N 500
178. **Pneumatic Gate Company,** Chicago. Railway gates. Y-N & Z-10 501
179. **Positive Lock Washer Company,** Newark, N. J. Nut locks and washers. W-N-8 499
180. **Pope, J. L.,** Cleveland, Ohio. Rail joints, steel ties, tackle-blocks and elevated railway. W-S-9 499
181. **Porter, H. K., & Co.,** Pittsburg, Pa. Locomotives and steam motor. K-S-15-18 500
182. **Pratt & Letchworth,** Buffalo, N. Y. Car couplers, brake adjusters and railway castings. O-S-1 500
183. **Price Railway Appliance Company,** Philadelphia. Metallic ties; rail joints; arcade system; tie fastenings. W-S-5-7 499

UNITED STATES.

184. Pullman, A. B., Company, Chicago. Freight car door. O-S-3 500
185. Pullman Palace Car Company, Chicago
a Complete vestibule train. Q-N 500
b Passenger coaches, locomotives, etc. D-8 503
c Model of town of Pullman, Ill. D-8 503
186. Ramapo Wheel & Foundry Co., Ramapo, N. Y. Boltless steel tired wheels. KN, 15-18; C-1; Q; S-8-15 500
187. Rand, McNally & Co., Chicago. Ticket cases, tickets, punches, baggage checks, maps, etc. D-8-14 502
188. Reese, Henry, Baltimore. Metallic cross-tie. W-N-8 499
189. Re-enforced Rail Joint Company, Boston. Rail-joints. W-N-9 499
190. Rhode Island Locomotive Works, Providence, R. I. Locomotives and tenders. H-N-4-10 500
191. Richmond Locomotive Works, Richmond, Va. Locomotive. H-N-18-19 500
192. Roberts, Throp & Co., Three Rivers, Mich. Hand-cars. N-N-15 500
193. Rodger Ballast Car Company, Chicago. Ballast distributing cars; section of track. W-N-10 500
194. Rogers Locomotive Company, Paterson, N. J. Passenger and freight locomotive engines. H-N-12-1 500
195. Romney, Mrs. Caroline W., Chicago. Foot stove for cars. G-N-3 500
196. Rowell-Potter Safety Stop Company, Boston. Safety stop and block signal system. Intramural Ry. 501
197. Russell Wheel & Foundry Co., Detroit, Mich. Logging cars. L-S-10 500
198. Safety Car Heating and Lighting Company, New York. Car lighting material; heating apparatus. U-S-4 500
199. Safford Automatic Draw Bar Co., Chicago. Automatic link and pin draw bars and models. MS. 13&14 500
- 199½. Sargent Company, The Chicago. Brake shoes and steel castings. P-N-1 & Q-S-1 500
200. Saunders, E., Austin, Texas. Metallic railway tie. W-N-6 499
201. Scarritt Furniture Company, St. Louis. Car furniture. D-8-15 500
202. Schenectady Locomotive Works, Schenectady, N. Y. Locomotives and model. H-S-12-18 500
203. Schoen Manufacturing Company, Pittsburg, Pa. Y-S-6 & X-N-6
a Railroad ties. 499
b Pressed steel articles for cars. 500
204. Schoen Pressed Steel Brake Beam Company, Pittsburg, Pa. Brake beams. X-N-6 500
205. Sellers, Morris, & Co., Chicago. Splice bars, track spike and steel rail. C-2-8 499
206. Sheffield Car Company, Three Rivers, Mich. Light cars for industrial purposes. N-N-13-14 500
207. Sheffield Velocipede Car Company, Three Rivers, Mich. W. ex. 500
a Hand car, etc. 500
b Automatic railway water crane. N-N-13-14 501
208. Shrague, J. W., Cincinnati, Ohio. Diagram and plan of state-room sleeping car; portable live stock stall. M-N-8 500
209. Shoulder Tie Plate Company, Philadelphia. Shoulder tie plates. W-N-9 499
210. Smillie Coupler & Manufacturing Co., Newark, N. J. Car coupler. P-S-2 500
211. Simplex Car Coupler Co., St. Joseph, Mo. Car coupler. M-S-14 500
212. Standard Lubricator Company, New York. Oil for journals. N-S-4 500
213. Standard Steel Works, Philadelphia. Steel tires; wrought-iron wheel centers. Dept. E 500
214. Stannard & White, Appleton, Wis. Locomotive engineers' cab seats. O-S-3 500
215. Stephenson, John, Company, New York. Truck for electric railway car. Dept. J 500
216. Sternbergh, J. H., & Son, Reading, Pa. Track bolts, rivets, etc. X-N-11 499
217. Stever Railway Rail Joint Co., Fairfield, Iowa. Rail fastenings. WN. 8&9 499
218. Stilson, A. C., Kendall Creek, Pa. Roller bearings, shaftings, etc. G-N-3 500
219. St. Louis Car Wheel Company, St. Louis. Wheels and castings. I-S-3 500
220. Street's Western Stable Car Line, Chicago. Cattle car. O-N-16 500
221. Streeter-Amet Weighing and Recording Co., Chicago. Weighing and recording device. M-4 502
222. Taylor Iron & Steel Co., High Bridge, N. J. Car wheels and steel castings. HN; I-S-2 500
223. Terre Haute Car & M'f'g Co., Terre Haute, Ind. Chill cast iron wheels for railroad and electric cars. H-N 3&4 500
224. Thatcher Car & Construction Co., New York. Dumping cars. S-3-4 500
225. Tilden, B. E., Company, Chicago. Wrecking frogs and bridge guards. X-N-9 499
226. Trojan Car Coupler Company, Troy, N. Y. Car couplers. O-N-3 500
227. Tryon Investment Company, New York. Boiler scale remover. H-N-19 500
228. Union Bridge Company, New York. Photographs of bridges and model of bridge; eye-bar tests. D-4-16 499
229. United States Car Company, Anniston, Ala. H-N-3-4
a Samples of fractured and bent iron; car axles. 500
b Interlocked shafting. H-N-3 501
230. United States Car Company, Chicago. Refrigerator car. M-S-16 500
231. United States Metallic Packing Company, Philadelphia. Piston-rod and steam packings. O-S-3 500
232. United States Wind Engine & Pump Co., Batavia, Ill. Railway water-station material. (Outside building) 501
233. Verona Tool Works, Pittsburg, Pa. Steel track tools. Y-N-4 499
234. Voigt, F. F., Chicago. Model of track-laying machine. X-S-12 499

DEPARTMENT G.—TRANSPORTATION.

235. **Vulcan Iron Works Co., Toledo, Ohio.**
Steam shovel. X-S-11 499
236. **Waddell, J. A. L., Kansas City, Mo.**
Drawing of lift-bridge. D-4 499
237. **Wagner Palace Car Company, New York.** Passenger equipment. 500
N. Y. Cent. Ry. Bld. 500
238. **Wakefield Rattan Company, Chicago.**
Railway car seats. D-7-18 500
239. **Ward, Montgomery, & Co., Chicago.**
Graders and scrapers. X-N-12-Y-S-11 499
240. **Weeks, George, Oakland, Cal.** Models railway rail joints and rail couplings. Z-3 499
241. **Wellman Iron & Steel Co., Thurlow, Pa.** N-N-1 499
a Bridge plates. 499
b Steel plates for locomotive boilers. 500
242. **Western Wheel Scraper Company, Aurora, Ill.** Scrapers, road machines, etc. Y-N&Z-1 499
243. **Westinghouse Air Brake Company, Pittsburg, Pa.** Railway brakes; train signaling apparatus. C-3 500
244. **Wheeler, Harris A., Chicago.** Car seats and chairs. D-8-17 500
245. **Wheeler, Phillip, Branchport, N. Y.** Rail-road tie and chair. W-N-8 499
246. **Whitney, A., & Sons, Car Wheel Works, Philadelphia, Pa.** Chilled cast iron wheels and steel tired wheels; flasks and other apparatus for molding wheels, boxes and pedestals for steam. K-N-3-4 500
247. **Wolhaupter, Benj., Chicago.** Car brake attachment. N-N-8 500
248. **Wuerpel Switch & Signal Co., St. Terminal Railroad.** 500
a Wrecking car. 500
b Interlocking device and signals. 501
249. **Yale & Towne M'fg Co., Stamford, Conn.** Locomotive crane. X-S-10 500
250. **Young Reversible Lock Nut Company N. Y.** Rail joint with locks. W-N-7 499
- GROUP 81.**
- Street Car and Other Short Line Systems.**
251. **Anderson, Albert, & J. M., Boston.** Electric railway; switches; fixtures. L-N-4 505
252. **Baltimore Car Wheel Co., Baltimore, Md.** Electric motor truck. R-N-13 505
253. **Bass Foundry & Machine Works, Fort Wayne, Ind.** Electric motor. I-S-3 505
For exhibit see pages 360 and 361.
254. **Bemis Car Box Company, Springfield, Mass.** Truck. 505
- 254a. **Boyle & Calleton, Grand Rapids, Mich.** Street car motor. Ex. track. 506
255. **Brownell Car Company, St. Louis.** Street car and appliances. L-S-9 505
For exhibit see page 777.
256. **Burnham & Duggan Railway Appliances Co., Boston.** Trolley wire, brackets and insulators. W-N-3 505
257. **Burrows Car Shade Company, Portland, Me.** Shades and curtains for electric cars. K-N-bet. 3&4 505
258. **California Wire Works, San Francisco, Cal.** Rope way in operation, wire and wire rope. L-M-16-18-N-S 504
259. **Chicago Naptha Motor Company, Englewood, Ill.** Street car motor. Exhibition tracks. 506
260. **Columbian Intramural Railway, World's Fair elevated electric railway, World's Fair grounds.** 507
261. **Curtis Electric Manufacturing Company, Jersey City.** Electric street car. Ex. track outside 505
262. **Cushion Car Wheel Company, Indianapolis, Ind.** Electric motor wheels. H-N-3 505
263. **Duplex Street Railway Track Company, New York.** Ex. track and track material. K-N-3-4 506
264. **Elevated Suspension Electric Railway Company, Chicago.** Model of electric suspension railway. A-146-aisle 506
265. **Frost's Veneer Seating Company, New York.** Street car seats and backs. D-8-16 506
266. **General Electric Company, New York.**
a Electric railway equipment. Dept. J. 505
b Intramural elevated electric railway (in service on the grounds). 507
267. **Genett Air Brake Company, Chicago.** Air brake equipment. Z-4 505
268. **Grier, W. W., Hulton, Pa.** Interior car finish. A gal. 3 506
269. **Hale & Kilburn Manufacturing Co., Philadelphia.** D-3-18 506
a Seats for cable cars. 504
b Seats for electric cars. 505
c Seats for horse cars. 506
d Seats for elevated and suburban cars. 507
270. **Hallidie, A. S., San Francisco.** Dummy used on first cable road and section of road-bed; grip and pulleys and model of rope way. L-N-17 504
271. **International Register Company, Chicago.** Fare registers. K-N-11 506
272. **Jervis Spencer Co., Baltimore, Md.** Curtain roller for street cars. K-N-3&4 506
273. **Johnson Company, Johnstown, Pa.** Street railway appliances. L-M-4-5 506
274. **Jones, J. M., Sons, West Troy, N. Y.** Street railway cars. L-S-7 505
275. **Lamokin Car Works, Philadelphia.** Cars; folding car gates, etc. L-N-9-10 506
276. **Ludlow, Geo. M., Elgin, Ill.** Model of electric car and track. O-N-17 505
277. **McAndrews, James, Chicago.** Street car castings and gongs. P-S-3 506
278. **McGuire Manufacturing Company, Chicago.** Motor trucks. L-S-12 505
279. **Murray, Jasper, Cleveland, O.** Street car brake. L-S-bet-10-11 506
280. **New Jersey Steel & Iron Co., Trenton, N. J.** Model of elevated railway. N-N-5 507
281. **Norton, A. O., Boston.** Jacks for street and electric cars. U-S-3 505
282. **Parke, Robert A., New York.** Compressed air street car. Exhib. tracks. 506
283. **Peckham Motor Truck & Wheel Co., Kingston, N. Y.** Motor truck and wheels. etc. L-S-16 505

UNITED STATES.

284. Porter Tramway Switch Company. Cleveland, O. Railway switch, tracks and motor. L-S-12 505
285. Price Railway Appliance Company, Philadelphia. Rail joints; arcade system of sub-structure. W-S-5 506
286. Pullman's Palace Car Company, Chicago. Street cars. 2-9 506
287. Reliable Manufacturing Company, Boston. Street railway supplies, heater, etc. L-N-15 505
288. Robinson Electric Truck & Supply Co., Boston. Radial system. Dept. J 505
289. Standard Fireless Engine Company. Chicago. Ammoniacal motor with apparatus. L-N-12 506
290. Standard Railway Supply Company, Chicago. Street car stoves and specialties. L-N-6-7 506
291. Stephenson, John, New York. L-S-4-6
a Cable car. 504
b Electric car, tracks and appurtenances. Ex. tracks. 505
c Picture of first street car, built in 1831. 506
292. St. Louis Car Wheel Company, St. Louis. Street car wheels. I-S-3 506
293. Suspension Transportation Company, Boston. Elevated electric system of transportation In service, Dept. G 505
294. Taylor Electric Truck Company, Troy, N. Y. Motor trucks for electric cable railways. L-S-18 504 & 505
295. Tilden, B. E., Company, Chicago. Motor replacers, wrecking frogs, bridge guards. X-N-9 505
296. Trenton Iron Company, Trenton, N. J.
a Wire ropes and cables Y&Z-4-5 504
b Underground haulage appliances. 507
297. Valley, John N., Jersey City, N. J. Model of elevated railway track. W-S-12 507
298. Wheeler, Harris A., Chicago. Street car seats. D-8-17 506
299. Whitney, A., & Sons Car Wheel Works, Philadelphia. Boxes and pedestals for street cars. 506
300. Wharton, Wm., Jr., & Co., Philadelphia. Track material. L-S-3 506
- GROUP 82.**
- Miscellaneous and Special Railways.**
301. American Car Co., St. Louis. Passenger coaches for sliding railway. Midway Plaisance 508
302. Whitney, A., & Sons Car Wheel Works, Philadelphia. Boxes and pedestals for mining cars. 508
- GROUP 83.**
- Vehicles and Methods of Transportation on Common Roads.**
304. Abresch, Chas., Milwaukee, Wis. Beer wagons. A-9 511
305. Acme End Gate Mfg. Co., Chicago. Wagon end gate. A-14 522
306. Allen, S. L., & Co., Philadelphia. Steering sleds, coasters. B gal. 517
307. Alliance Carriage Co., Cincinnati. Light pleasure vehicles. A-1 516
308. American Cycle Co., The, Chicago. Bicycles, etc. F gal. 14 520
309. Amesbury Carriage Co., Amesbury, Mass. Pleasure carriages. B-7 515
310. Anchor Buggy Co., Cincinnati. Light pleasure vehicles. B-1 516
311. Ariel Cycle Mfg. Co., Goshen, Ind. Bicycles. F gal. 12 520
312. Armleder, O., & Co., Cincinnati. Delivery wagons. A-6 511
313. Atwood, A. H., Chicago. Carriage lamps, harness mountings. B gal. 522
314. Aubeuf, F. J., Oneida, N. Y. Hand carts, runners. A-12 509
315. Austin, F. C., Manufacturing Company, Chicago. A-10
a Dump cart and wagon. 510
b Road grader, roller, street sweeper and wagon loader. 511
316. Austin, Tomlinson & Webster Mfg. Co., Jackson, Mich. A-3
a Farm wagon. 510
b Village cart. 516
317. Ayers, William, & Sons, Philadelphia. Horse blankets. B-5 523
318. Bailey, F. O., & Co., Portland, Me.
a Phaeton and surrey. 516
b Sleighs. B-6 517
319. Bailey, S. R. & Co., Amesbury, Mass. Light pleasure vehicles. B-7 516
320. Baker, W. Edwyn, Philadelphia. Wheels and hubs. A gal. 3 522
321. Barber Asphalt Paving Co., New York. Traction recording vehicle for roadways. A-5 510
322. Barkley, Frank B., Manufacturing Company, Chicago. A-4
a Buggy and phaeton. 516
b Harness and saddlery goods. B gal. 523
323. Bedloe, Edward, U. S. Consul, Amoy, China. Models of sedan chairs collected for the Exposition. 518
324. Bettendorf Tubular Axle Works, Davenport, Iowa. Axles, bolsters, wagon. A-9 522
325. Biddle & Smart Co., Amesbury, Mass. Light pleasure vehicles. B-7 516
326. Black, Alexander, Toledo, Ohio. Air catcher. PN. 6&7 510
327. Boyle & Calleton, Grand Rapids, Mich. Bicycles. A gal. 1 520
328. Bowman & Allen, Dayton, O. Tobacco wagon. A-10 511
329. Brailly, Phillipe, Bellaire, Ohio. Brake for heavy carriages. B-4 522
330. Brewster & Co., New York. Pleasure carriages. B-6 515
331. Bridgeport Chain Co., Bridgeport, Conn. Chains. B gal. 523
332. Blodgett Mfg. Co., Chicago. Bicycles. A gal. 1 520
333. Boston & Lockport Block Co., Boston. Railroad trucks. Gal. E 29 509
334. Briggs Carriage Co., Amesbury, Mass.
a Large pleasure wagons. B-7 512
b Light pleasure vehicles. 516
335. Buchholz, H. & Co., Janesville, Wis. Wagonet and wagonet omnibus. B-4 514
336. Buckeye Buggy Co., Columbus, Ohio. Light pleasure vehicles. B-3 516
337. Buckeye Cart Co., Charleston, W. Va. Light pleasure vehicles. A-1 516
338. Buffalo Spring & Gear Co., Buffalo, N. Y. Vehicles in the white. A-12 516

DEPARTMENT G.—TRANSPORTATION.

339. Burg Wagon Co., Burlington, Iowa. Wagon. A-5 511
340. Bradley Chainless Bicycle Co., Albany, N. Y. Bicycles, etc. A gal. 520
341. Bradshaw Mfg. Co., Boston., Mass. Bicycles. A gal. 1 520
342. Burlington Blanket Co., Burlington, Wis. Horse blankets. A gal. 523
For exhibit see page 687.
343. Butler, L. A., Chicago. Carriage fittings. B gal. 522
344. Central Cycle Mfg. Co., Indianapolis, Ind. Bicycle and parts. A gal. 520
345. Champion Wagon Co., Owego, N. Y. Farm and lumber wagons. A-9 510
346. Checkhook Holdback Coupling Co., Chicago. Couplings. B-10 522
- 346a. Chicago Trace Holder Co., Trace holders. A gal. 4 522
347. Cincinnati Panel Co., Cincinnati, Ohio. Buggy and surrey bodies in the white. A-14 522
348. Clark, A. H., Company, Chicago. Bicycles. A gal. 1 520
349. Clarkson, J. T., & Co., Amesbury, Mass. Pleasure carriages. B-7 515
350. Cleveland Hardware Co., Cleveland, Ohio. Wagon and carriage hardware. B gal. 522
351. Coburn Whip Co., Windsor, N. Y. Whips. B gal. 7 523
352. Colfax Mfg. Co., South Bend, Ind. Light pony vehicles. B-7 516
353. Collins Manufacturing Company, Jackson, Mich. Light pleasure carriages. B-7 516
354. Columbia Cab Co., Decatur, Ill. Baby carriages, stools. B gal. 9 521
355. Columbus Buggy Co., Columbus, Ohio. Light pleasure vehicles. B-5 516
356. Cook Carriage Co., Cincinnati. Light pleasure vehicles. A-2 516
357. Cook, William, New York. Children's carriages. B gal. 521
358. Cork Faced Collar Co., Lincoln, Ill. Horse collars. B gal. 6 523
359. Cowles, C., & Co., New Haven, Conn. Carriage hardware. B gal. 522
360. Crane & Breed Mfg. Co., Cincinnati. Hearses and funeral car. A-4 519
361. Cunningham, Jas., Son & Co., Rochester, N. Y. B-5 515
a Pleasure carriages. 515
b Hearses. 519
362. Currier, Cameron & Co., Amesbury, Mass. Phaetons. B-7 516
363. Currier, Eben N., Amesbury, Mass. Buggy. B-7 516
364. Curley, John, Brooklyn, N. Y. B-4 515
a Pleasure carriages. 515
b Buggy. 516
365. Dann Bros. & Co., New Haven, Conn. Carriage wood work. A-14 522
366. Dalzell Axle Co., South Egremont, Mass. Carriage axles. B gal. 522
367. Dark, Thos. & Sons, Buffalo, N. Y. Garbage wagon. A-7 511
368. Davies Iron Works, Muskegon, Mich. Trucks. A-12 509
369. Davis Carriage Co., Cincinnati. Light pleasure vehicles. A-2 516
370. Denver Manufacturing Company, Denver, Col. Saddles, bridles and quirts. A gal. 523
371. Derby Cycle Co., Chicago. Bicycles and parts. F gal. 2 520
372. Dentler, Frank, & Sons, Parkville, Mich. Pneumatic sulky. B-9 516
373. Dougine, J. T., Chicago. Wagon and truck. A-3 510
374. Donnelly & Deward, Chicago. Safety bicycle. Gal. F-7 520
375. Dunham & Kissinger Bros., Englewood, Ill. Dump wagons. A-7 511
376. Eagle Bicycle Manufacturing Company, Torrington, Conn. Bicycles and pneumatic tires. F gal. 520
377. Eberhard Mfg. Co., Cleveland, Ohio. B gal. 522
a Carriage and wagon hardware. 522
b Saddlery hardware. 523
378. Elbel & Co., Canton, Ohio. Saddlery hardware. A gal. 523
379. Elkhart Carriage & Harness Mfg. Co., Elkhart, Ind. B-8 511
a Milk wagon. 512
b Wagonette. 516
c Light pleasure vehicles. 523
d Harness. 523
For exhibit see page 821
380. Emerson Fisher Co., Cincinnati. Light pleasure vehicles. A-2 516
381. Empire Cross Spring Co., Janesville, Wis. Large pleasure wagons. A-4 512
382. Enterprise Carriage Mfg. Co., Miamisburg, Ohio. Light pleasure vehicles. B-1 516
383. Favorite Carriage Co., Cincinnati. Light pleasure vehicles. A-2 516
384. Featherstone, A., & Co., Chicago. Bicycles, children's carriages. F gal. 23 520
385. Fenton, J. H., Co., Chicago. Stable accessories. A gal. 523
386. Ferguson, James O., Greenwiche, Thill coupling. B gal. 522
387. Fish Bros. Mfg. Co., Racine, Wis. a Lumber gear. A-7 510
b Heavy wagons. 511
388. Fitch Gear Co., Rome, N. Y. Wagon gear. A-14 522
389. Flandreau & Co., New York. B-4 515
a Pleasure carriages. 515
b Wagon. 516
390. Folger & Drummond, Amesbury, Mass. Traps. B-7 515
391. Folger, N. H., Amesbury, Mass. Cutter. B-7 516
392. Frazier, W. S., & Co., Chicago. Light pleasure vehicles. B-8 516
393. Freeland & Bradley, Wellsville, N. Y. Carriage poles. A-14 522
394. Freeport Bicycle Mfg. Co., Freeport, Ill. Bicycles and parts. F gal. 11 520
395. Fostoria Buggy Co., Fostoria, Ohio. Light pleasure vehicles. B-7 516
396. Fulton & Walker Co., Philadelphia. Heavy wagons. A-3 511
397. Gallup, S. C., & Frazier, Pueblo, Col. Saddles; cow boys' leather overalls. A gal. 523
398. Ganard, Henry H., Cleveland, Ohio. Pneumatic tire trotting sulky. B-9 516
399. Gellhaus, Nielsen & Pamp, Philadelphia. Snow and ice velocipede A gal. 520

UNITED STATES.

400. Geneva Carriage Co., Geneva, N. Y.
a Wagon. A-3 511
b Wagonette. 512
c Light pleasure vehicles. 516
401. Gendron Iron Wheel Company, Toledo, Ohio. F gal. 4
a Bicycles; tricycles; velocipedes. 520
b Children's carriages; goat sulky. 521
402. Gilliam Mfg. Co., Canton, Ohio. Stable accessories. B gal. 523
403. Glens Falls Buckboard Co., Glens Falls, N. Y. Light pleasure vehicles. B-8 516
404. Gormully & Jeffery Mfg. Co., Chicago. Bicycles and parts. F gal. 20. 520
 For exhibit see page 774.
405. Goold, James, Co., Albany, N. Y. Pleasure carriages. B-4 515
406. Grand Rapids Wheelbarrow Co., Grand Rapids, Mich. Wheelbarrows. A-12 509
407. Green, John M. Mfg. Co., Chicago. Harness, stable accessories. A gal. 523
408. Hanaw, F., & Co., Jackson, Mich. Road cart; sulkies. A-3 516
409. Hanimann, Chas., New York, N. Y. Baby carriage brake. B gal. 521
410. Hartford Cycle Co., Hartford, Conn. Bicycles and parts. F gal. 22 520
411. Hartman & Co., Wooster, Ohio. Stable accessories. A gal. 523
412. Herbrand Co., Fremont, Ohio. Carriage hardware. B gal. 522
413. Hickory Wheel Co., Newton, Mass.
a Sulkies. B-9 516
b Bicycles and parts. F gal. 25 520
414. Hill Cart Co., Chicago, Ill. Road carts. A-1 516
415. Hill, Wm. D., Northwood, N. C. Harness. B gal. 523
416. Hill, Thomas, Jersey City, N. J. Wagon, dumping cart. A-7 510
417. Hollander, Lambert, Amesbury, Mass. Rockaways. B-7 515
419. Hullar Bros., Chicago. Horse collars. A gal. 523
420. Indiana Buggy Company, Elkhart, Ind. Light pleasure vehicles. B-8 516
421. India Rubber Comb Co., New York. Harness trimmings. A gal. 523
 For exhibit see pages 350 and 646.
422. James & Mayer Buggy Co., Cincinnati. Light pleasure vehicles. B-1 516
423. Johnson, F. C., Kishwaukee, Ill. Neck yokes. B gal. 522
424. Johnson Wheel Company, Freeport, Ill. Carriage wheels. A-13 522
425. Joliet Strawbridge Co., Joliet, Ill. Farm wagon. A-9 510
426. Kauffman Buggy Co., Miamisburg, Ohio. Light pleasure vehicles. B-1 516
427. Kauffman Buggy Co., Chicago. Light pleasure vehicles. B-1 516
428. Kentucky Wagon Mfg. Co., Louisville, Ky. Wagons. A-10 510
429. Kent, S. W., Meriden, Conn. Horse-ice calks. B gal. 523
430. Kilbourne & Jacobs Manufacturing Co., Columbus, O. A-12 570
a Trucks. 570
 Wheelbarrows. 509
431. Keystone Wagon Co., Reading, Pa. Coal dumping wagons. A-6 511
432. Kiper S., & Sons, Chicago. Stable accessories. A gal. 523
433. Knickerbocker Ice Co., Chicago. Ice and dump wagons. A-8 511
434. Knickerbocker Ice Co., Philadelphia. Ice wagon. A-5 511
435. Kimball, C. P., & Co., Chicago. B-4
a Pleasure carriages. 515
b Speeding wagon. 516
c Trotting sleigh. 517
d Stable accessories. 523
436. Kimbark, S. D., Chicago. Carriage bodies, spokes and wagon wood. A-11 522
437. Kenwood Mfg. Co., Chicago. Bicycles. F gal. 17 520
438. Krause, R. F., Chicago. Buggy tops. B gal. 522
439. Lansing Wheelbarrow Co. Lansing, Mich. Trucks, wheelbarrows, etc. A-12 509
440. LaPorte Carriage Co., LaPorte, Ind.
a Coupe rockaway. B-8 515
b Pleasure vehicles. 516
c Sleigh. 517
442. Lighthouse, J. C., Rochester, N. Y. Stable accessories. A gal. 3 523
443. Lozier Mfg. Co., Toledo, Ohio. Bicycles and parts. F gal. 18 520
444. Manville, B., & Co., New Haven, Conn. Pleasure carriages. B-4 515
445. Marion Cycle Co., Marion, Ind. Bicycles. F gal. 3 520
446. McClinchie, Uriah, New York. Baby carriages. A gal. 521
447. McCallum Steel Wheel Wagon Company, Elgin, Ill. Steel wheel wagons. A-5 510
448. McFarland, T. W., Chicago. Carriage tops and side panels. A-1 522
449. McIntosh Huntington Co., Cleveland, Ohio. Bicycles and parts. F gal. 26 520
450. McKinnon Dash & Hardware Co., Buffalo, N. Y. Dashes and fenders. B gal. 522
451. McMurray & Fisher Sulky Co., Marion, Ohio. Sulkies. A-3 516
452. Medina Carriage Company, Medina, O. Pony wagon. B-9 516
453. Melville, John, Buffalo, N. Y. Display horses. With historical ex. 523
454. Merrill-Stevens Mfg. Co., Niles, Mich. Bicycle wheels. F gal. 7 520
455. Metal Stamping Co., New York. Carriage, hardware. B gal. 522
456. Michigan Buggy Co., Kalamazoo, Mich. B-3
a Pleasure carriages. 515
b Light pleasure vehicles. 516
457. Milburn Wagon Co., Toledo, Ohio.
a Wagons, trucks. A-7 510
b Buggy. 516
458. Miller Bros., Amesbury, Mass. Break. B-7 512
459. Miller, John A., St. Louis. Wrenches, ratchet drills. B gal. 522
460. Miller-Knoblock Wagon Co., South Bend, Ind. A-8
a Heavy trucks. 510
b Street sprinkling wagons, beer wagons. 511

DEPARTMENT G.—TRANSPORTATION.

- 460a. Mitchell & Lewis Co., Racine, Wis.
a Farm wagon. A-6 510
b Express wagons. 514
c Light pleasure vehicles. 516
461. Mogul Mfg. Co., New York. Steel springs. A gal. 522
462. Moline Wagon Co., Moline, Ill. A-5
a Farm wagons. 510
b Spring wagons. 516
463. Monarch Cycle Co., Chicago. Bicycles. F gal. 21 520
464. Moore, L. Murray, Rochester, N. Y. Trucks, truck baskets, etc. A-12 509
465. Morrill, Osgood, Amesbury, Mass. Traps. B-7 516
466. Motts, Geo., Washington, D. C. Harness. A gal. 523
467. Neal and Bolser, Amesbury, Mass. Light pleasure vehicles B-7 516
468. Neder & Cleland, Salt Lake City, Utah. Unpainted phaeton. B-9 516
469. New Haven Carriage & Wagon Co., New Haven, Conn. Pleasure carriages. B-3 515
470. Neumann, Rudolph, Unalaska, Alaska. Dog sled, harness and outfit complete for journey. Lower Yukon River. Sea coast sled, outfit complete, Morton Sound. Collected for the Exposition. 517
471. New York Fifth Wheel Co., Brooklyn, N. Y. Fifth wheels. B gal. 522
472. Norwood, J. E. Mfg. Co., Baltimore, Md. Automatic harness and vehicle attachment. B-11 523
473. O'Brien Wagon Co., Lafayette, Ind. Farm wagons. A-10 510
474. O'Connor Hame Fastener Co., New York. Hame fasteners. B-6 523
475. O'Hara, John H., Chicago. Thill couplings. B gal. 522
476. Ohio Spiral Spring Buggy Co., Cincinnati. Light pleasure vehicles. A-1 516
477. Ohl, Geo. D., Milwaukee, Wis. Horse collar. A gal. 523
478. Ortmayer, A., & Son, Chicago. Saddlery. A gal. 523
479. Overman Carriage Co., Cincinnati. Buckboard. A-2 516
480. Overman Wheel Co., Chicopee Falls, Mass. Bicycles. F gal. 10 520
481. Palmer, Chas. A., Amesbury, Mass. Brougham. B-7 515
482. Parry, A. N., & Co., Amesbury, Mass. Break and wagons. B-7 512
483. Peters Dash Company, Columbus, O. Vehicle dashes, fenders, etc. B gal. 522
484. Pope Mfg. Co., Boston. Bicycles and parts. F gal. 23 520
485. Pratt & Letchworth, Buffalo, N. Y. Hames, saddlery, etc. O-S-1&2 523
486. Racine Wagon & Carriage Co., Racine, Wis. A-1&6
a Wagons. 511
b Light pleasure vehicles. 516
487. Ratterman & Luth, Cincinnati. Light pleasure vehicles. B-1 516
488. Read, Wm., & Sons, Boston. Bicycles. F gal. 3 520
489. Remington Arms Co., Iliou, N. Y. Bicycles and parts. F gal. 2 520
490. Risser, A. F., Co., Chicago. Saddlery. A gal. 523
491. Rochester Shaft Support Co., Rochester, N. Y. Shaft support. B gal. 522
492. Rochester Wheel Co., Rochester, N. Y. Vehicle wheels and parts. A-11 522
 For exhibit see page 826.
493. Rock Falls Mfg. Co., Sterling, Ill. Hearses and cars. A-4 519
494. Rouse-Duryea Cycle Co., Peoria, Ill. Bicycles and parts. F gal. 15 520
495. Rouse, Hazard & Co., Peoria, Ill. Bicycles and parts. F gal. 16 520
 For exhibit see page 1000
496. Rowell, Saml., & Son, Amesbury, Mass. Traps. B-7 516
497. Rowland, Wm., & Harvey, Philadelphia. Vehicle springs. B gal. 522
498. Royal Cycle Works, Marshall, Mich. Bicycles and parts. F gal. 7 520
499. Rubber Step Mfg. Co., Exeter, N. H. Carriage steps. B gal. 522
500. Safety Halter Company, Chicago. Safety halter, rope and street tie rope. B gal. 4 523
501. Sargent, D. F., & Son, Geneseo, Ill. Road carts. A-1 516
502. Sargent Mfg. Co., Muskegon, Mich. Wheels, rolling chairs. A gal. 521
503. Sayers & Scovill, Cincinnati. A-4
a Buggies. 516
b Hearse and cars. 519
504. Schaefer & Schlegel, Rochester, N. Y. Carriage and hearse trimming. A gal. 522
505. Schwitter, Fred, Allegheny, Pa. Milk wagon. A-6 510
506. Schuttler & Hotz, Chicago. A-5
a Wagon and cart. 510
b Special purpose wagons. 511
507. Sechler, D. M., Carriage Co., Moline, Ill. Light pleasure vehicles. B-2 516
 For exhibit see page 816.
508. Sechler & Co., Cincinnati. Light pleasure vehicles. A-2 516
509. Seeman, Henry & Son, Durham, N. C. Vehicle with wooden springs. B-4 516
510. Sheldon Axle Co., Wilkes-Barre, Pa. Carriage axles. B gal. 522
511. Sercombe-Bolte Mfg. Co., Milwaukee, Wis. Bicycles and parts. F gal. 5 520
512. Shepard, H. G., & Sons, New Haven, Conn. Carriage wood work. A-14 522
513. Shiels, John H., & Co., Amesbury, Mass. Phaeton. B-7 516
514. Simonds Rolling-Machine Co., Fitchburg, Mass. Rolled-forged steel specialties. A gal. 1 522
 For exhibit see page 812.
515. Smith, H. B., Machine Co., Smithville, N. J. Bicycles. A gal. 520
516. Smith, H. D., & Co., Plantsville, Conn. Vehicle hardware. A gal. 522
517. Spalding, A. G. & Bros., Chicago. Bicycles and accessories. F gal. 12-13 520
518. Standard Car Coupling Co., New York. Car couplings, etc. N-N-3 500
519. Standard Wagon Co., Cincinnati. Light pleasure vehicles. A-2 516
520. Stearns, E. C., & Co., Syracuse, N. Y. Bicycles. F gal. 520
521. Stender, G. F. G., Chicago. Harness. A gal. 523
522. Stewart, Walter G., Reading, Pa. Dumping wagon. A-3 511

UNITED STATES.

523. Staver & Abbott Mfg. Co., Chicago.
Light pleasure vehicles. B-3 516
For exhibit see page 822.
524. St. Louis Carriage Mfg. Co., St. Louis.
Light pleasure vehicles. B-2 516
525. Stokes Mfg. Co., Chicago. Bicycles and parts. F gal. 6 520
526. Stone, C., & Sons, Chicago. Pleasure carriages. B-4 515
- 526a. Stoughton Wagon Co., Stoughton, Wis.
a Wagons. A-8 510
b Bob sleigh. 517
527. Streich, A., & Bro., Oshkosh, Wis.
a Trucks and carts. A-9 510
b Special purpose wagons. 511
c Log sled. 517
528. Studebaker Bros. Mfg. Co., Chicago.
Pleasure carriages. B-6 515
529. Studebaker Bros. Mfg. Co., South Bend, Ind.
a Wagons and carts. B-6 510
b Pleasure carriages. A-8 515
c Light pleasure vehicles. 516
530. Stutz & Walker, Goshen, Ind. Buggies. A-3 516
- 530a. Taylor & Lawton, Denver, Col.
Carriage and wagon wheels. B gal. 522
531. Taylor, S., & Co., Chicago. Track harness; horse boots. A gal. 523
532. Toledo Display Horse Co., Toledo, Ohio. Display horses, etc. A gal. 523
533. Trott Mfg. Co., Chicago. Surcingles. B gal. 523
534. Troy Buggy Works Co., Troy, Ohio.
Light pleasure vehicles. B-8 516
535. Turnbull & Co., Newark, N. J. A-4
a Coach. 515
b Hearses. 519
536. United States Whip Co., Westfield, Mass. Whips and lashes. Gal. A 523
537. Wakefield Rattan Co., Chicago.
Children's carriages. B gal. 8 521
538. Walborn & Riker, St. Paris, Ohio.
Pony vehicles. B-2 516
539. Wapakoneta Wheel Co., Wapakoneta, Ohio. Wheels and materials. A-13 522
540. Warwick Cycle Manufacturing Company, Springfield, Mass. Safety bicycles. F gal. 7 520
For exhibit see page 633.
541. Watson, D. S., Canastota, N. Y.
Dumping wagon. A-7 511
542. Wayne Sulkyette & R. C. Co., Decatur, Ill. Light pleasure vehicles. A-1 516
543. Webber Wagon Co., Chicago.
a Special purpose wagons. A-9 511
b Mountain wagon. 512
c Bob sleigh. 517
544. Western Wheel Works, Chicago.
a Bicycles. A gal. 2 520
b Wheel chairs; children's carriages. 521
For exhibit see page 790.
545. Western Wheeled Scraper Company, Aurora, Ill. Wheelbarrows. Y-N&Z-12 509
546. Weston & Wells Mfg. Co., Philadelphia. Vehicle fittings. B gal. 522
547. Wilcox & Howe Co., Birmingham, Conn. Vehicle hardware. B gal. 522
548. Williamson, A. McIntosh, Philadelphia. Rubber cushioned wheel. B gal. 522
549. Wilson, Myers & Co., New York. Bicycles and parts. F gal. 8 520

550. Winans, Pratt & Co., Kalamazoo, Mich. Light pleasure vehicles. A-4 516
552. White Mfg. Co., Bridgeport, Conn.
Carriage lamps and mountings. B gal. 522
553. Whitman Agricultural Co., St. Louis.
Trucks, wagons and cars. X-N & Y. S. Post 12 509
554. Whitman Saddle Co., New York.
Equestrian goods. A gal. 523
555. Whitney, Russell M., Olean, N. Y.
Black birch wagon hubs. A-11 522
556. Woodhull, Morris, Dayton, O. Jump seat surrey. B-8 516
557. Woods, Wm. J., Cold Spring, on-Hudson, N. Y. Whiffletree coupling. B gal. 522
558. Yost Mfg. Co., Toledo, Ohio.
Bicycles. A gal. 6 520

GROUP 84.

Aerial, Pneumatic and Other Forms of Transportation.

559. Barre Cash & Package Carrier Co., Mansfield, Ohio. A gal. 524
a Pneumatic tubes. 524
b Carriers, money changer. 525
560. Bostedo Package & Cash Carrier Co., Chicago.
a Pneumatic tubes. 524
b Store service carriers. 525
561. Burdett & Rowntree, Chicago.
Mechanism for operating elevator doors. D-4-16 527
562. Coburn Trolley Track Manufacturing Company, Holyoke, Mass. Carrying track for overhead tramways. L-S-18 505
563. Crane Elevator Company, Chicago.
Elevators and passenger machines. Dept. F 527
564. Cregier, Dewitt C., Chicago. Electric elevator. E-5-26 527
565. Mansfield Cash & Package Carrier Co., Mansfield, O. Cash and package carrier. A gal. 525
566. McEachran, Andrew, Fitchburg, Mass. Elevator. F gal. 7 527
567. Miles Pneumatic Tube Company, Boston. D-12-24
a Pneumatic parcel, cash and mail tubes. 524
b Pneumatic elevators. 527
568. Morse, Williams, & Co., Philadelphia.
Passenger elevator. D-14-17 527
For exhibit see page 815.
569. Otis Bros., & Co., New York. Hydraulic, electric and steam elevators. D-4 Central towers and Exposition Buildings. 527
For exhibit see page 238.
570. Smith Pneumatic Transfer and Storage Co., Chicago. Pneumatic machinery for conveying grain, etc. Y-N-11 502
571. Standard Screw Elevator Manufacturing Company, Baltimore. Elevator. C-2-11 527
572. Standard Store Service Co., Freeport, Ill. Cash and package carriers. F gal. 7 255
573. Smith-Hill Foundry and Machine Co., Quincy, Ill. Elevators. C-7 527
574. Swezey, Moses Clarke, New Haven, Conn. Cash carriers. F-14 525

DEPARTMENT G.—TRANSPORTATION.

575. **Trenton Iron Company, Trenton, N. J.** Hoisting and conveying appliances and tramways. Y & Z-4 527

GROUP 85.

Vessels, Boats—Marine, Lake and River Transportation.

576. **Allen, F. S., Cuttyhunk, Mass.** Life boat. E gal. 46 534
- 576a. **American Publishing Co., Hartford, Conn.** Water color paintings of war vessels, U. S. Navy.
577. **American Ship Windlass Co., Providence, R. I.** Windlasses, capstans models, etc. D-12-23 531
For exhibit see page 826.
578. **American Steel Barge Company, Superior, Wis.** Gal. E-41 528
a Barges. 529
b Models of steamers. 530
c Photographs. 532
d Anchor. 532
579. **Anderson, James A., Summit, Ohio.** Full rigged ship and half models of brig and schooner. Gal. 47 528
580. **Ashton Valve Co., Boston, Mass.** Marine safety valves and gauges. I-N-11 531
581. **Bannister, Ed., U. S. Consul, St. Paul de Loando, Africa.** Bimba or log canoe; Donga or dug-out, with equipment used by fishermen of Loanda. Collected for the Exposition. E gal. 528
582. **Batcheller, G. W., New Holstein, Wis.** White birch canoe. 528
583. **Bath Iron Works, Bath, Me.** Windlasses, capstans, appliances. D-12-24 531
584. **Bedloe, Edward, U. S. Consul, Amoy, China.** Models illustrating water transport in China. Collected for the Exposition. E gal. 33 528
585. **Beeson, H. C., Detroit, Mich.** Marine directory. E gal. 29 534
586. **Blanchard Bros., Yarmouth Me.** Model of ship "Admiral." Gal. 35 528
587. **Blodgett Mfg. Co., Chicago.** Treadle power boat. E gal. 43 529
588. **Boston & Lockport Block Co., Boston.** Blocks, pumps, hoists. E gal. 29 532
589. **Boyle & Calleton, Grand Rapids, Mich.** Engines and launch. D-9-23 529
590. **Brooks, John B., Waysata, Minn.** Sail boat model. E gal. 25 528
591. **Buess, Fred D., Meriden, Conn.** Picture of S. S. "Elbe" in human hair. E. gal-39
592. **Cape Ann Anchor Works, Gloucester, Mass.** Anchors. E gal. 42 532
593. **Carlton, Norwood & Co., Rockport, Me.** Model of ship "Fred'k Billings." Gal. 35 518
594. **Carpenter, Geo. B., & Co. Sails and sailmaking.** E gal. 42 532
595. **Cassidy, A. B., Washington, D. C.** Steam yacht design. E gal. 35 529
596. **Century Co., New York.** Drawings of modes of transportation. E gal. 36 536
597. **Chase Elevator & Manton Windlass Co., Warren, R. I.** Vessel equipment models. D-12-22 532
598. **Chesapeake & Ohio Steamship Co., Cincinnati.** Models of iron steamships. E gal. 33 529
599. **Chicago Ship Bldg. Co., Chicago.** Ship models and pictures. E gal. 33 528
600. **Clark, Edward S., Boston.** Steam launches; engines; boilers; propeller wheels and power-plants, on launches in lagoons. 529
601. **Coleman's Walter, Sons, Providence, R. I.** Vessel and tackle. E gal. 42 528
602. **Coston Night Signals, New York.** Marine night signals. E gal. 39 534
603. **DeGrauw, Aymar & Co., New York.**
a Boat oars. E gal. 30-31 532
b Bunting flags. 536
604. **Detroit Boat Works, Detroit, Mich.**
a Models of boats. D-1-22 528
b Steam and electric launches. 529
c Marine hardware. 532
d Life boat and raft. 534
605. **Drein, Thos., & Son, Wilmington, Del.** Life boats and raft. D-1-24 534
606. **Dunning James, Bangor, Me.** Model of bark "Gold Hunter." E Gal. 35 528
607. **Duryea, C. E., Springfield, Mass.** Gasoline launch. D-16-22 529
608. **Electric Launch & Navigation Co., New York.** Electric launches (50). (In service on lagoons.) 529
609. **Elmes, Chas. F., Chicago.** Engines. Steam launch Chicago 529
610. **Emmons, Lieut. Geo. T., U. S. Navy, Sitka, Alaska.** Tlingit canoe. Collected for the Exposition. E gal. 29 528
611. **Essex Institute & Peabody Academy of Science, Salem, Mass.** E gal. 32
a Drawings of ships. 528
b Photos of exhibits, nautical instruments. 536
612. **Farrin, G. H., Richmond, Me.** Model of ship "Ocean Wave." E gal. 35 528
613. **Foster, Hickman E., Decatur, Ill.** Boat detaching apparatus. B-Gal. 46 528
614. **Gas Engine & Power Co., New York.** Naphtha launches. D-5-22-23 529
615. **General Electric Company, New York.**
a Electric motors, controllers, etc.; dynamos for marine work; electrical system for ships. (In service and in Electric Building.) 531
b System of signaling. 534
616. **Gerrish, E. H., Bangor, Maine.** Can-vas canoes and boat. E gal. 41 528
617. **Glass, Wm., & Sons, Philadelphia.** Single scull shell. E gal. 32-33 528
618. **Globe Iron Works Co., Cleveland, Ohio.** D-12-23
a Steamship model. 529
b Steam windlass and engine. 531
619. **Harcourt's, J. F., Son, Cincinnati.** Tackle blocks. E gal. 42 532
620. **Harlan & Hollingsworth Co., Wilmington, Del.** Vessel models and pictures. D-5-22-24 529
621. **Harper & Bros., New York.** Transportation subjects illustrated. E gal. 31 536
622. **Hoboken Ferry Co., Hoboken, N. J.** Model of a ferry-boat, and boat containing the original engine and boilers of the first twin screw steamboat ever built. E gal. 28 529

UNITED STATES.

623. Hogan, T., & Sons, New York. Ocean steamship model. E gal. 34-35 529
624. Hunt & Stowe, Old Town, Maine. Birch and canvas canoes. E gal. 43 528
625. Hussey, Geo. B., Providence, R. I. Life rafts. E gal. 42 534
626. International Navigation Co., Philadelphia. Full-sized section of steamers. D-9-23 529
627. Johnston, P. D., Chicago. Model of ocean steam yacht. YS. 4&5 529
628. Kahnweiler, David, New York. Life saving appliances. D-12-22 534
629. Kane, Thos. & Co. Chicago. D-5-24
- a Yachts, boats and canoes. 528
- b Steam and electro-vapor launches. 529
- c Boat fittings. 532
630. Kirk, Arthur, Pittsburg, Pa. Navigation lock, for use in ascending rapids, rivers, etc. Dept. D 530
631. Laughlin, Thomas, Company, Portland, Me. E gal. 42
- a Steerers, wheels; windlasses. 531
- b Tackle blocks, marine hardware and anchors. 532
632. Levy Robert, Constantinople, Turkey. Caique used on the Bosphorus and Golden Horn. Collected for the Exposition. D-6-21 528
633. Link Belt Engineering Co., Philadelphia. Automatic discharge barrel elevator, continuous bucket coal elevator and continuous coal conveyor. F-7 527
634. Loring, Giles, Yarmouth, Me. Model of bark "Onaway." Gal. 35 528
635. Maryland Steel Co., Sparrow's Point, Md. Models of ships, ship appliances and photographs. Gal. E-41 529
636. McAdams, John, & Sons, Brooklyn, N. Y. Working models of marine brake. E gal. 43 531
637. McBean, Edge & Co., Buffalo, N. Y. Vessel signal and anchor lights. E gal. 42 534
638. McDonald, John, Bath, Me. Model of ship "Henry B. Hyde." E gal. 35 528
639. Meeker, Ellis, R., Chicago. Steam launches. Lagoons and lake 529
640. Merrill's, R., Sons, New York. Compasses and binnacles. E gal. 42 531
641. Metcalf, Damariscotta, Me. Models of ships "Ocean Herald," "Flying Scot" and "American Union." E gal. 35 528
642. Minott, C. V., Phippsburg, Me. Model of ship "St. Mary." E gal. 35 528
643. Morse & Co., Bath, Me. Model of steamer "B. W. Morse" and barge "Independent." E gal. 35 528
644. Meaney, John, Boston. Race boat equipment. E gal. 46 532
645. Morris, B. N., Veazie, Maine.
- a Boats and canoes. E gal. 45 528
- b Boat equipment. 532
646. Neumann, Rudolph, Unalaska, Alaska. Hatch bidarka (skin canoe) complete—Aleutian Islands. Bydarka and outfit of hunting sled, paddles, etc.—Morton Sound. Birch bark canoe (outfit complete), double birch bark canoe (outfit complete) and toboggan sled—Upper Yukon River. Collected for the Exposition. E gal. 28 528
647. New England Company, Bath, Me. Models of steamer "Sappho" and steam yacht "Sagamore." E gal. 35 529
648. New York State, Albany. E gal. 36-39 529
- a Photos. of steamer and tow on Erie Canal and Hudson River.
- b Relief map of canal system of State, model of lengthened lock on Erie canal, model of original lock built at Little Falls, N. Y., in 1795, wall map showing water route from Duluth to New York, photos of aqueducts, etc. 530
649. Newport News Shipbuilding & Dry Dock Co., Newport News, Va. E gal. 30
- a Model of steamers. 529
- b Model of shipbuilding plant. 530
650. New York & New Jersey Sandy Hook Pilots, New York. Model of pilot boat; pictures of phases of pilots' service at sea. F gal. 26 528
651. Nicaragua Canal Construction Co., New York. Plan in relief of the Nicaragua Canal. E gal. 43 530
652. Nye, Rockland, Me. Model of ship "Young Mechanic." E gal. 35 528
653. Old Colony Steamboat Co., Boston. Steamer models. D-6-21 529
654. Osgood & Co., Waldoboro, Me. Model of schooner "Gov. Ames." E gal. 35 528
655. Pain, Jas., & Sons, New York. Pyrotechnics for ships' use. E gal. 42 534
656. Peabody, Henry G., Boston. Photographs of U. S. naval squadron and yachts. E gal. 33-34 528
657. Porter Joseph, Freeport, Me. Model of schooner "Dash" (privateer). E gal. 35 528
658. Poulsen, N. C., Chicago. Paintings of vessels, etc. E gal. 36 528
659. Pratt & Letchworth, Buffalo, N. Y. Propeller wheels and marine castings. O-S-1 531
660. Providence & Stonington Steamship Co., New York. Models and pictures of steamboats. E gal. 27 529
661. Rice & Whitacre M'f'g Co., Chicago. Engine. Launch Atlantic 529
662. Richards, David, Chicago. Sailing model of seagoing racing yacht. E gal. 26 528
663. Richardson, Chas. N., Gloucester, Mass. Steerers. E gal. 43 531
664. Rogers, William, Bath, Me. Model of ship "Gov. Robie." E gal. 35 528
665. Rooke, George, Emporia, Kansas. Working steam models of boats without bows. E gal. 46 529
666. Rushton, J. H., Canton, N. Y. E gal. 31-32
- a Row and sail boats; canoes. 528
- b Fittings for small boats. 532
- For exhibit see page 878.
667. Safety Car Heating & Lighting Co., New York. Gas buoys. J-3 534
668. Sewall, A., & Co., Bath, Me. Model of ship "Rappahannock." E gal. 36 528

DEPARTMENT G.—TRANSPORTATION.

669. Sheild, F. W., Hampton, Va. Gang plank. E gal. 34 531
670. Siamese Commission. Models of vessels and boats. E gal. 26 528
671. Sintz Gas Engine Co., Grand Rapids, Mich. Marine gasoline engine. D 15-24 529
672. Skolfield Bros., Brunswick, Me. Model of ship "Sam'l Skolfield." E gal. 35 528
673. Smith & Stanton, New York. Drawings of steam vessels. E gal. 30 529
674. Soule, Horace, Freeport, Me. Models of ships "Suliotte" and "Tam O'Shanter." E gal. 35 528
675. State of New York. Photograph of yacht "Racquette" on Erie canal. E gal. 37 528
676. State Historical Society of Wisconsin, Madison, Wis. Old fur trade bateau. E gal. 35 536
677. Stewart & Binney, Boston.
a Sail boat models. E gal. 36-38 528
b Steam yacht models. 529
678. Stratford, Geo., Oakum Co., Jersey City, N. J. Oakum. E gal. 46 532
679. Summers, Jas. C., New York. Yacht record book, lithographed yacht flags. E gal. 27 536
680. Sunden, Jno., Menekaunee, Wis. Minature full-rigged vessel. E gal. 29 528
681. Taylor, Charles Edwin, St. Thomas, Danish West Indies. Model of the Island of St. Thomas. Gal. E-40 534
682. Tisdale, W. B., Peru, S. A. Balsa from Lake Titicaca, Peru. Collected for the Exposition. E gal. 30 528
683. Truscott, Boat Manufacturing Co., St. Joseph, Mich. D-13, col 21
a Sail and row boats. 528
b Launches. 529
684. Tucker, R. H., Wiscasset, Maine.
a Models of vessels. E gal. 45 528
b Models of barges. 530
685. Union Hardware Company, Torrington, Conn. Tackle blocks, marine hardware, etc. 5 E gal. 42 32
686. Union Iron Works, San Francisco. Model of works and ship yard. E gal. 44-46 530
 For exhibit see page 778.
687. Venetian Gondola Co., Chicago. Gondolas and barges. (On lagoon) 528
688. Wallace, George H., Consul-General, Melbourne, Australia. Bark canoe from Lake Tyers, Australia. Collected for the Exposition. E gal. 31 528
689. Webb, Beavor, J. New York. Models of yachts. E gal. Col. 27 529
690. Wellman Iron & Steel Co., Thurlow, Pa. Ship plates. N-N-1 532
691. White, H. W., Yanktown, S. Dak. Propeller for water craft. E gal. 45 531
692. Wilcox, Crittenden & Co., Middletown, Conn. Marine hardware. E gal. 42 532
693. Wilkstrom, E. A., Momenca, Ill. Boat from Hammerfest, Norway. E gal. 34 528
694. Williams, Chas. K., & Co., Easton, Pa. Ship anchors. D-15-24 532
695. Williamson Bros., Philadelphia. Steering and hoisting engines. D 12-24 531
696. Woolfolk, Alex. M., Chicago. Canal excavator. (West wall, Annex.) 530
697. World's Columbian Exposition. Series of twelve pastels illustrating ships of the American merchant marine from 1792 to the present time. E gal. 34

GROUP 86.

Naval Warfare and Coast Defense.

698. Bedloe, Edward, U. S. Consul, Amoy, China. Full rigged models illustrating water transport on Chinese waters. Collected for the Exposition. E gal. 33 539
699. Bethlehem Iron Co., South Bethlehem, Pa. Armor, guns and forgings, ingots, torpedo. K-N, L-8, 7 542
700. Dudley, Dana, Lynn, Mass. Pneumatic dynamite gun. D 15-23 542
701. Emmons, Lieut. Geo. T., U. S. Navy, Sitka, Alaska. Red cedar haida canoe. Collected for the Exposition. E gal. 27 539
 D 15-24 542
702. Hotchkiss Ordnance Co., Providence, R. I. Implements of war and defense. J-1 542
703. Wildman, Rounseville, U. S. Consul. Models of Malay boats and vessels (collected for the Exposition). E gal. 43 528

Monon Railway.

For exhibit see page 638.

Safety Insulated Wire & Cable Co.,

New York. Wire and cables.

For exhibit see page 685.

Ames & Frost Co., Chicago, Ill. Bi-

cycles.

For exhibit see page 819.

AUSTRIA.

GROUP 80.

1. Ringhoffer, F., Smichow, near Prag.
Photos of passenger and freight cars. 500

GROUP 83.

2. Armbruster, S., Vienna. Pleasure carriages. 515
3. Broziks, John W., Pilsen (Bohemia). Pleasure carriages. 515

4. Leckel, Hans, Vienna. Patented saddle. 523
5. Lohner, Jacob, & Co., Vienna. Pleasure carriages. 515
6. Pavlovic, Luigi, Triest. Whipstocks. 523

GROUP 85.

7. Skoda, E., Pilsen (Bohemia). Propeller. 529

BELGIUM.

GROUP 80.

1. Legrand, Achille, Mons. 499
a Rails. 499
b Rolling stock. 500
2. Luyers, Charles, & Co., Brussels. Railway brake. 500
3. Petitjean, Joseph, Angleur-Renory. Bolt and nut. 499
4. Société anonyme de Baume & Marpent; Haine-Saint-Pierre. Wheels and axles. 500
5. Wasterlain, Jules, Malines. Car coupler. 500

GROUP 83.

6. Baudewyns, Alph., Ixelles. Samples of carriage painting. 522

GROUP 85.

7. Lindebriengs-Cuyx, H., Louvain. Ropes and cordage. 532
8. Vermeire-Hellebaut, F., Hamme. Ship's rigging; cordage. 532
9. Vermeire, Marcel, Hamme. Ship's rigging; cordage. 532

CANADA.

GROUP 80.

1. Andrews, Jno. S., Milltown, N. B. Car coupler. 500
2. Canadian Pacific Ry. Co., Montreal. a Photos and maps. 499
b Locomotive and train of cars. 500
3. Central Bridge Co., Peterboro, Ont. Cattleguards. 499
4. Gray, Andrew G., St. John, N. B. Door for box car. 500
5. Hammond, O. S. & W. R., Parkdale, Ont. Car coupler. 500
6. Heard, Thomas, St. Thomas, Ont. Car coupler. 500
7. Harris, J., & Co., St. John, N. B. Car axles, bolsters, etc. 500
8. Jones, F. Newhall, St. John, N. B. Car coupler. 500
9. Montreal Car Wheel Co., Montreal. Chilled car wheels. 500
10. Piper, Noah L., & Son, Toronto. a Semaphores, gates, lamps, etc. 499
b Headlight. 500

11. Public Railroad Bureau. Maps, tables and photos of railroad lines, bridges, tunnels, etc. 499
12. Reid, Edwin B., Barrie, Ont. Car coupler. 500
13. Starkey, Wm. & Jas., Moncton, N. B. Car coupler. 500
14. St. Thomas Car Wheel Co., St. Thomas, Ont. Car wheels and axles. 500
15. Vessot, & Co., Joliette, Que. Lubricator. 500

GROUP 81.

16. Montreal Car Wheel Co., Montreal. Wheels for tramways. 506
17. Rochester, E., Ottawa. Electric car fender. 505
18. Russell, W. H., Vancouver, B. C. Coal and freight elevators. 502

GROUP 82.

19. Western Counties Ry. Yarmouth, N. S. Photos of scenery. 508
20. Windsor & Annapolis Ry. Co., Kentville, N. S. Photos of scenery. 508

DEPARTMENT G—TRANSPORTATION.

GROUP 83.

21. Adams & Sons, Paris, Ont. Farm wagons. 510
22. Armstrong, J. B., Mfg. Co., Guelph, Ont. Carriage gear and springs. 522
23. Berry, A., Warden, Quebec. Sleigh. 517
24. Bonnar, Wm., Albion, Ont. Buggy. 516
25. Borbridge, S. & H., Ottawa. Harness and saddles. 523
26. Burns J., & Son, Toronto, Ont.
a Dog-cart. 515
b Sleigh. 517
27. Chatham Mfg. Co., Chatham, Ont. Wagons. 510
28. Forbes Mfg. Co., Halifax, N. S. Skates. 517
29. Goold Bicycle Co., Brantford, Ont. Bicycles. 520
30. Hutchings & Riley, Calgary, N. W. T. Cowboy outfit. 523
31. McCraney Coal Co., Toronto. Heavy carts. 510
32. McKinnon Dash and Hardware Co., St. Catharines, Ont. Carriage hardware. 522
33. Malloy & Malcolm, Hamilton, Ont.
a Carriage. 515
b Phaeton. 516
34. Masseoro, Louis, Montreal. Phaeton. 516
35. Rancour, Alexis, Quebec. Gig. 516
36. Robinson, G. W., Kingston, Ont.
a Carts. 510
b Sleighs. 517
37. Starr Mfg. Co., Halifax, N. S. Skates. 517

38. Verret & Co., Quebec.
a Carriage. 515
b Sleighs. 517
39. Whelpley, J. A., & Co., Greenwich, N. B. Skates. 517

GROUP 85.

40. Baker, L. E., Yarmouth, N. S. Models of ships. 528
41. Buckley, Wm. H., Guysboro, N. S. Model of toy steamboat. 529
42. Canadian Pacific Ry., Montreal. Models of steamships. 529
43. Chanteloup, E., Montreal. Light-house. 534
44. Dept. Public Works, Ottawa. Models of locks and canals. 530
45. Douglas, C. H., Lakefield, Ont. Model of folding boat. 528
46. English, Wm., Canoe Co., Peterboro, Ont. Canoes. 528
47. Harlow, Stephen, Lockport, N. S. Models of fishing schooners. 528
48. Harris, J., & Co., St. John, N. B. Ships' iron knees. 532
49. Herald Bros., Gore's Landing, Ont. Canoes. 528
50. Moffat, Geo. B., North Sidney, C. B. Model of vessel. 528
51. Montreal Canoe & Boat Co., Montreal. Canoes and boats. 528
52. Moseley, Eben, Dartmouth, N. S. Models of ships, yachts and barges. 528
53. Moseley, Henry, Dartmouth, N. S. Boats and models. 528
54. Strickland & Co., Lakefield, Ont. Canoes and boats. 528

CEYLON.

GROUP 83.

1. Ceylon Commission. Bullock carts and models. 510

GROUP 85.

2. Ceylon Commission. Kattamaran. Padda boat with net, rowing and fishing

boats and cannon; models of canoes and jaffna ballam. Gal. 26 528

GROUP 86.

3. Ceylon Commission. Models and Appliances of war ship. Dept. M 539

DENMARK.

GROUP 80.

1. Beck, J. A. O., Randers, Jutland. Switches for railway track. 499

GROUP 83.

2. Barth, S. C., Horsholm, Sealand. Cavalry saddle. Dept. H 523

3. Kastrup, I. E., Copenhagen. Horse medicine administering apparatus. Dept. A 523

GROUP 85.

4. Freeport of Copenhagen. Model of the Freeport at Copenhagen. Dept. H 534
5. Larsen, F. O., Copenhagen. Wave-subduer. Dept. H 534

GERMANY.

GROUP 80.

1. **Breslauer Aktiengesellschaft fuer Eisenbahn Wagenbau, Breslau.** Passenger railway car. 500
2. **Daimler Motorenengesellschaft, Cannsbatt.** Motor brake. 500
3. **General Direktion der Gororsherzogl Badischen Haatsusenbahuen Harlsruhe.** The drawings of the "Hoellen Hal" railroad, tooth racks, locomotives and cars. 500
4. **Heyn, J., Stettin.** Drawing; automatic safety valve, etc. 500
5. **Henschel & Sohn, Cassel.** Locomotive. 500
6. **Krupp, Friedrich, Essen.** Car wheels, etc. 500
7. **Hausshaelter, Hugo, Dresden.** Speed register for locomotives. 501
8. **Lueders, Heinrich, Brunswick.** Automatic contrivance for railroad signals and switches. 501
9. **Maschinenbau Aktiengesellschaft Nurnberg vorm Klett & Co., Nuremberg.**
 - a Album of photos of constructions. 499
 - b Model of train. 500
10. **Mueller, Edmund & Mann, Charlottenburg near Berlin.** "Mannocitin," a preventive against rust. 499
11. **Phoenix Aktiengesellschaft fuer Bergbau und Huettenbetrieb, Saar.** Constructions of iron and steel. 499
12. **Redaktion des Archivs fuer Eisenbahnwesen, Berlin.** Railway literature. 503
13. **Reichseisenbahnamt, Berlin.** Statistics and publications. 503
14. **Royal Prussian State Railway Management, Berlin.**
 - a Models, photographs of railroad plants, etc. 499
 - b Operating system. 501
15. **Schichau, F., Elbing.** Locomotive and tender. 500
16. **Siemens & Halske, Berlin.** Safety apparatus for railway systems. 501
17. **Union Aktiengesellschaft fuer Bergbau, Eisen und Stahlindustrie, Dortmund.** Constructions of iron and steel. 499
18. **Wepfer, Gustav, Wasseraalangen.** Railway viaduct. 499
19. **Yuedel, Max & Co., Brunswick.** Model of a train entrance for depots. 499
20. **Zypen von der & Charlier, Cologne-Deutz.** Passenger railway coach; iron coal car; flat car. 500

GROUP 81.

21. **Bleichert, Ad. & Co., Leipsic.** Plans and photos of cable railroad plants. 504
22. **Hoerder Bergwerks und Huetten Verein, Hoerde.** Street railway plants. 506
23. **Pohlig, J., Cologne.** Cable railroad and photos. 504

24. **Siemens & Halske, Berlin.** Electric street car. 505

GROUP 82.

25. **Bregmann & Haebener, Hamburg.** Models of transportable railroads, rails, switches, turn-tables, etc. 508
26. **Halberstadt-Blankenburg Eisenbahngesellschaft, Blankenburg.** Cogged railway of the "Hartz" mountains. 508
27. **Rettig Bros., Munich.** Drawings and pamphlets of an inclined railway 508

GROUP 83.

28. **Aichinger, Gottlieb, Bayreuth.** Landau. 515
29. **Daimler Motorenengesellschaft, Cannstadt.** Wagonettes. 512
30. **Dick & Kirschten, Offenbach-on-the-Main.**
 - a Carriages. 515
 - b Appurtenances. 522
31. **Eisenwerke Gaggenau, Gaggenau.** Bicycles with appurtenances. 520
32. **Frankenburger & Attenstein, Nuremberg.**
 - a Bicycles. 520
 - b Invalids' rolling chairs. 521
33. **Kleyer, Heinrich, Frankfort-on-the-Main.** Bicycles and appurtenances. 520
34. **Knoch, H., Egeln.** Carriages. 515
35. **Kunath, H., Dresden.** Axles. 522
36. **Opel, Adam, Ruesselheim.** Bicycles. 520
37. **Westendarp & Pieper, Hamburg.** Automatic tariff indicator for cabs. 513

GROUP 84.

38. **Cosmos Verlags und Verkehrsanstalt, Berlin und Continental Kautschuk und Guttapercha Co., Hanover.** Captive balloon. 526
39. **Wolf, Gustav, Leipsic.** Letter-box automaton. 893

GROUP 85.

40. **Blohm & Voss, Hamburg.** Three ship models. 528
41. **Breyer, Joh. F., Hamburg.** Model of a water velocipede. 529
42. **Daimler, Mptorenengesellanchaff, Cannstadt.** Electric boat. 529
43. **Dreymann, Otto, Hanover-Linden.** Automatic swimming vest and life preserver. 534
44. **Duesseldorf, Ratinger Roehrenkessel-fabrik, vorm Duerr & Co., Ratingen.** Ship boiler. 531
45. **Fabian, Robert, Breslau.** Pleasure, sport and work boats.
- 45a. **Germania Schieffer Maschinenbad Aktiengesellschaft, Berlin.** Dredging machine. 530
46. **Hamburg-American Packet Co., Hamburg.** Four large models of express steamers. 529

DEPARTMENT G.—TRANSPORTATION.

47. Holtz, R., Harburg. Boilers and machines for steam and motor boats. 531
48. Kette, Deutsche Elbschiffahrtsgesellschaft, Nebigau. Ship steering engines. 531
49. Kirchhoff, O., Stralsund. Model of reversible life-boats for passenger steamers. 534
50. Luebecker Maschinenbau Gesellschaft, Luebeck. Models of excavators; drawings of dredging machines. 530
51. Mueller, Hans. Carl, Hamburg. Swimming and life preserving apparatus; pamphlets. 534
52. Muessig, Otto, Breslau. Boat shell. 528
53. North German Lloyd, Bremen. Ship models, charts, etc. 528
54. Phoenix Aktiengesellschaft fuer, Bergbau und Henttenbetrieb Baar. Iron and steel appurtenances. 532
55. Swiderski, Ph., Leipsic, Plagwitz. Petroleum motor and boat. 529
56. Tecklenborg, Johann, Geestemunde. Ship models. 528
57. Thomsen, H., Luebeck. Ship signal lanterns. 534
58. Union Aktiengesellschaft fuer, Bergbau, Eisen und Stahlindustrie, Dortmund. Iron and steel appurtenances. 532
- GROUP 86.**
59. Germania Schiff und Maschinenbau Aktiengesellschaft, Berlin.
a Models of cruisers and armored vessels. 537
b Dispatch and torpedo boats; dredging machines, etc. 538
60. Krupp, Friedr., Essen. Armor plates, forgings, etc. 542
61. Stettiner Maschinenbau-Aktiengesellschaft Vulkan, Bredow, near Stettin.
a Models of German express steamers and relief plans of the company's plant. 538
b Model of Chinese man-of-war. 539

GREAT BRITAIN.

GROUP 80.

1. Aldridge, James G. W., London. Sleeping berth for railway cars. U-N-9-10-Annex 500
2. Baker, Sir Benjamin, K. C. M. G., London. Model of Forth Bridge. C-2-13 499
3. Belfast & Northern Counties Railway, Belfast. Views of railway scenery. U-N-7-8-Annex 503
4. De Monte & Jost, Bombay, India. Model of block system for railway. Annex 501
5. Dorn, Charles Frederick, London. Model of live stock car. C-11 500
6. Fowler, Sir John, Bart., K. C. M. G., London. Model of the Forth bridge. C-2-13 499
7. Great Eastern Railway Company, London. Map of railway system and views. U-N-7-Annex 503
8. Great Western Railway Company, London. U-N-1-4
a Rails and vacuum brake. Annex 499
b Engine. 500
c Views. 503
9. Irish Railway Companies, Dublin. Views of Irish scenery. U-N-8-9-Annex 503
10. London & North Western Railway Company, London. V-S-1-9
a Passenger locomotive and cars, models, boiler tube cutters, etc. 500
b Signal apparatus. 502
c Views of scenery, etc. 503
11. Midland Railway Company, Derby. U-N-6-Annex
a Photographs of passenger engines, carriages and appliances. 500
b Views of places. 503
12. Macfarlane, Strang & Co., Ltd., London. Railway chairs and sleepers. Dept. F 500

13. Purdon, William, Hull. Working model of railway carriage door. U-N-9-10 500
14. Westwood & Winby, London.
a Expansion gear for bridges and rail joint. U-N-5-Annex 499
b Express passenger locomotive. 500

GROUP 81.

15. Cradock, George, & Co., Wakefield. Samples of new and worn cable, tramway and mining ropes. 504
 For exhibit see page 1032.
16. Smith, Thomas & William, Newcastle-on-Tyne. Steel wire cables. 504

GROUP 83.

17. Briggs, Thomas, Salford. Cart. 510
18. Brigg, T. H., London. Annex.
a Vehicles with wheel plate and draught, and haulage attachments. 511
b Bearing-rein, etc. 523
19. Carver, Joseph, Walsall. Harness, whips, etc. 523
20. Cope, Benjamin, & Sons, Ltd., Walsall. Bits, bridles, snaffles and stirrup irons. 523
21. Coventry Machinists' Company Ltd., Coventry. Bicycles and tricycles. Entresol 520
22. Davis & Wilson, West Birmingham. Whips, ornaments and materials. 523
23. Disc Wheel Company, Ltd., Tooting. Spokeless wheel for cycles and other vehicles. 522
24. Guest & Barrow, Birmingham. Bicycles. Entresol 520
25. Hitching & Wynn, London.
a Children's tricycles. 520
b Baby, doll and goat carriages and carts, carriage chairs. 521

GREAT BRITAIN.

26. Horsley, Charles, & Sons, Eccles. Light pleasure vehicles. 515
27. Humber & Co., Ltd., London. Cycles and safety bicycles. Entresol 520
28. Institute of British Carriage Manufacturers, London. A collection of models, paintings, drawings and engravings of all types of coaches, chariots and other vehicles and parts of same, in use at different periods, illustrating the progress of invention and improvement in carriage building, specimens of heraldry paintings, engravings and lithographs of Indian and other modes of transport, caricatures of English and Irish methods of traveling. Entresol 51
29. Laurie & Marner, London. Dress coach used by the Lord Mayors of London. 515
30. Martin & Martin, London. Harness, saddlery, riding canes, whips, lap robes, etc. 523
31. Metallic Tube & Flask Company, Ltd., Birmingham. Steel tubes, cycle spokes. Entresol 520
32. Morgan & Co., Ltd., London. Drag, phaeton, brougham, victoria and landau. 515
33. New Howe Machine Company, Ltd. Glasgow. Bicycles and tricycles, and cycle parts. Entresol 520
34. Peat, Henry, & Co., London. Harness, saddlery and stable fittings. 523
35. Premier Cycle Company, Ltd., Coventry. Bicycles and tricycles, and cycle parts. Entresol 520
36. Quadrant Cycle Company, Birmingham. Bicycles. Entresol 520
37. Raleigh Cycle Company, Ltd., Nottingham. Bicycles and tricycles and cycle parts. Entresol 520
38. Seddon's Patent Pneumatic Tire Company, Ltd., London. Tires, bicycles, tricycles and cycle accessories. Entresol 520
39. Sparkbrook Manufacturing Company, Ltd., Coventry. Bicycles and tricycles, and cycle parts. Entresol 520
40. St. John Ambulance Association, London. Litter and stretcher and ambulance material. 519
41. Ward Electrical Car Company, Ltd., London. Electric vehicles. Annex 518
42. Warman & Hazlewood, Ltd., Coventry. Bicycles, fittings and accessories. Entresol 520
43. Whitworth Cycle Company, Birmingham. Cycles. Entresol 520
44. Wilson, Henry, Dublin. Harness. (Ground floor) 523
45. Woods & Son, St. Ives. Ivo car. 518
46. Zimmer, F. W., London. Mechanism for cycles. 520
47. Aldridge, James G. W., London. Sleeping berth for ships' cabins. 532
48. Atlantic Transport Line, London. Models of steamers "Massachusetts," "Manitoba," "Mohawk," and "Mobile," and all appliances. 529
49. Belfast Ropework Company, Ltd., Belfast. Ropes for ships' use. 532
50. Bryer, J., & Son, London. Ships' lamps. 533
51. Cook, Thomas & Son, London. Models illustrating travel in various countries and periods. 536
52. Cleghorn, William, Jr., Dundee, Scotland. Hemp oakum, sheathing felt. 532
53. Cunard Steamship Company, Ltd., Liverpool. Models of Royal Mail steamships. 529
54. Currie, Donald & Co., Ltd., London. Models of steamships and photographs. 529
55. D'Arcy Irvine, John, Dublin. Line-throwing gun with automatic life-buoy. 534
56. Denny, Wm., & Bros., Dumbarton, Scotland. Models of steamers. 529
57. Fairfield Shipbuilding & Engineering Co., Ltd., London. Ships' models and photographs of ships and engines. 529
58. Furness, Withy & Co., Ltd., West Hartlepool. Model of cargo steamer. 529
59. Green, Joseph F., London. Model hydraulic lifeboat. 534
60. Hawthorn, R. & W., Leslie & Co., Ltd., Newcastle-on-Tyne. Models of passenger and emigrant steamers. 529
61. Heslop & Co., Ltd., Wakefield. Seamless steel boat. 528
62. Holmes, Joseph R., London. Torpedo indicating and life-saving lights and distress flares; mortar projectiles. 534
63. Horne, W. C., London. Luminous buoys, compasses, charts, tallies and tapes. 534
64. Johnson, S. H., & Co., Stratford. Fog signals. Dept. F 534
65. Laird Bros., Birkenhead. Models of steamers and yacht. 529
66. Langley, George, London. Anchors. 532
67. Mills, William, Sunderland.
a Model of navy cutter. 529
b Gear for boats and launches. 532
68. Peninsular & Oriental Steam Navigation Co., Ltd., London.
a Models of steamers. 529
b Map. 536
69. Ross & Duncan, Glasgow. Model of tug. Dept. F 529
70. Simons, Wm., & Co., Renfrew, Scotland. Models of dredges and elevating deck ferry steamer. 530
71. Thames Ironworks & Shipbuilding Co., Ltd., London.
a Models of ships and yachts. 528
b Models of tug boats, etc. 529
72. Thomson, J. & G., Ltd., Clydebank, Scotland. Models of steamers. 529
73. Turk, R. J., Kingston-on-Thames. Model of Thames skiff. 528
74. Union Steamship Company, Ltd., London. Models of steamers. 529
75. White Star Line, Liverpool.
a Models of sailing ships. 528
b Models of steamships. 529
76. Wimshurst, James, London. Model of the first freight carrying steamer. 529

GROUP 86.

77. Adamson Gun Syndicate, Ltd., London. Quick firing gun. 542

DEPARTMENT G.—TRANSPORTATION.

78. Armstrong, Mitchell & Co., Ltd., New-castle-on-Tyne. Half model of H. M. S. "Victoria;" full model of cruiser "25 de Mayo." 537
79. Brown & Co., Ltd., Sheffield. Armor plate, bolts, sleeves, nuts, boiler tubes and marine shafting. 542

80. Maxim-Nordenfelt Guns & Ammunition, Co., Ltd., London. Quick firing and machine guns with mountings, accessories and ammunition. 542
81. Yarrow & Co., London. Models of torpedo-boat catchers and the "Opalo." 537

ITALY.

GROUP 80.

1. Perelli-Minetti, Barletta. Receiving reservoir, etc. 499
2. Percelli & Minetti, Milan. Refrigerating car. 500

GROUP 83.

3. Gianotti, Giacomo, Milan. Whips. 523

4. Monti, Milan. Bits for horses. Dept. H 523

GROUP 85.

5. Bellini, San Martino, in Rio. Cordage. 532
6. Gianotti, Giacomo, Milan. Cordage. 532

JAPAN.

GROUP 83.

1. Kyubei Tanaka, Tokyo. Baby carriage. 521
2. Uhei Matsuda, Tokyo. Spurs. 523

GROUP 86.

3. Dept. of Navy. Naval charts. 537
4. Dept. of Navy—Naval arsenal. Cannon, shield, projectiles, steel, etc. 542
5. Dept. of Navy—Ship-building Section of Yokosuka Naval Station. Models and diagrams of men-of-war, cruisers, engines and boilers. D-6-21 / 537

6. Imperial Japanese Commission for the World's Columbian Exposition, Chicago. A pleasure boat, the originals of which were much used during the Fujiwara period (eleventh century) by the feudal lords on the lakes in their gardens. The boat will be named "Hoomarn," "Hoo" meaning phoenix bird, which is her figure-head, and "marn" being a term often given to ships in Japan. On lagoon 528

NORWAY.

GROUP 80.

1. Hansen, O. M., Christiania. Models of locomotive and railway car; drawings. Dept. H. 500

GROUP 83.

2. Hansen, O. M., Christiania. Model of mail wagon. Dept. H 514
3. Knudsen, A., Kovigen, Arendal. Blocks and dead eyes. Dept. H 522
4. Norseng, P., Hamar. Kariol. Dept. H 513

5. Remmen & Madsen, Kragero. Harness fasteners and shafts. Dept. H 522
6. Rokne, K., Vossevangen. Dept. H 513
- a Kariol. 513
- b Sleigh. 517

GROUP 85.

7. Hansen, Randulf, Arendal. Models of steel sailing vessels. Dept. H 528
8. Helvig, Jakob J., Stavanger. Steamship in miniature. Dept. H 529
9. Knudsen, A., Kovigen, Arendal. Boat. Dept. H 528

SWEDEN.

GROUP 80.

1. **Jernkontarets Kollektivutställning,**
Stockholm.
 a Casting for railway equipment. 500
 b Historical railway exhibit. 503
2. **Kohlswa Bruk, Hohlswa. Locomo-**
 tive wheel. 500
3. **Soderfors Bruks Aktiebolag, Soder-**
 fors. Car springs and wheels. 500
4. **Surahammars Bruks Aktiebolag, Sur-**
 ahammar. Railway axles, wheels, tires,
 etc. 500

GROUP 83.

5. **Dahlghen, Carl W., Eskilstuna.**
 Skates. 517
6. **Forennigen för Skedlopingens, Stock-**
 holm. Skates, sledges and toboggans. 517
7. **Langborg, Helmer, Stockholm.**
 Skates. 517
8. **Liberg, B. & O., Eskilstuna. Skates.**
 517
9. **Sandvikens Jernverks Aktiebolag,**
 Sandviken. Wheel tires. 522

10. **Stockholms Allmaenna Skridskoklubb,**
 Stockholm. Skates with sails for skate-
 sailing. 517
11. **Tull, N. P., Stockholm. Sails for**
 skate-sailing and models of ice yachts. 517

GROUP 85.

12. **Bergsund's Mekaniska Verkstads**
 Aktiebolag, Stockholm. Sheet-iron frame
 for beacon. 534
13. **Jernkontarets Kollektivutställning,**
 Stockholm. Anchors, chains, etc. 532
14. **Kgl. Lotsstyrelsen, Stockholm. Light-**
 house beacon. 534
15. **Kgl. Svenska Segelsällskapet, Stock-**
 holm. Sections and models of boats. 528
16. **Lindberg, L. F., Stockholm. Appar-**
 atus used in Swedish light-houses. 534
17. **Lyth, G. W., Stockholm. Lamp used**
 in the Swedish light-houses. 534
18. **Söderfors Bruks Aktiebolag, Söder-**
 fors. Anchors. 532

SWITZERLAND.

GROUP 82.

1. **St. Gothard Railway Co., Lucerne.**
 Plastic map and water color paintings of
 the St. Gothard Railway. 508

SIMONDS ROLLING-MACHINE CO.

FITCHBURG, MASS.

MANUFACTURERS OF

THE BEST BALLS IN THE WORLD

FOR ANTI-FRICTION PURPOSES.

Their superiority has been proven by actual tests and years of hard service.

ALSO FORGINGS BY THE

❖ SIMONDS PATENT PROCESS ❖

... INCLUDING ...

AIR BRAKE PINS,

CAR COUPLING PINS,

WHIFFLETREE HOOKS,

HAMES STAPLES,

HAMES STARTS,

BICYCLE CRANK AXLES,

PEDAL AXLES and

CRANK KEYS,

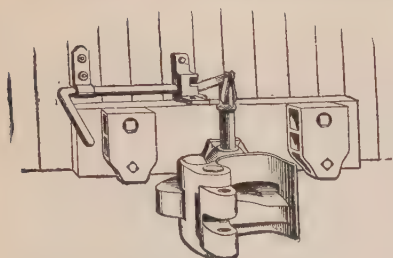
ALL OF WHICH ARE CARRIED IN STOCK.

Prices furnished on receipt of Samples or Drawings.

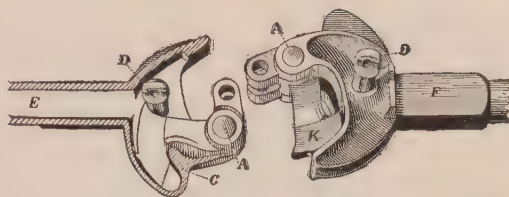
WRITE FOR CATALOGUE.

G. W. WEYMOUTH, General Manager.

The SMILLIE DOUBLE LOCK COUPLER.



ONLY 4 PIECES.



All Locking Parts are the Best of Steel.

TENSILE STRENGTH (Fairbank's Test) 146,400.

Drop Test. 1,400-lb. hammer dropped on head of Coupler as in service 10, 15 and 16 ft. failed to injure any part of Coupler.

The "SMILLIE" couples by slow impact, avoiding shock needed to lock other Couplers.

If Knuckle is lost or Lugs of Bar broken, use ordinary Link. No chain required.

Knuckle opens only by 6-inch lift of Locking Pin; can not jolt open.

"S" shape Knuckle forms double lock. Patented step holds it open.

THE SMILLIE COUPLER & MAN'F'G CO.

New York Office:

52 BROADWAY.



Office and Works:

91 CLAY ST., NEWARK, N. J.

S. J. MEEKER,



MALLEABLE,
GREY IRON

AND BRASS

FOUNDRIES

CLAY, SPRING AND OGDEN STREETS,

OFFICE, No. 95 CLAY STREET.

NEWARK, N. J.



Refined Malleable Castings, made from Air Furnace.

SMALL GREY IRON CASTINGS A SPECIALTY.

Correspondence Solicited.



OHIO STATE BUILDING.

EDWIN F. MORSE,
PRESIDENT.

G. R. REBMANN,
VICE-PRESIDENT.

CARLTON M. WILLIAMS,
SEC'Y AND TREAS.

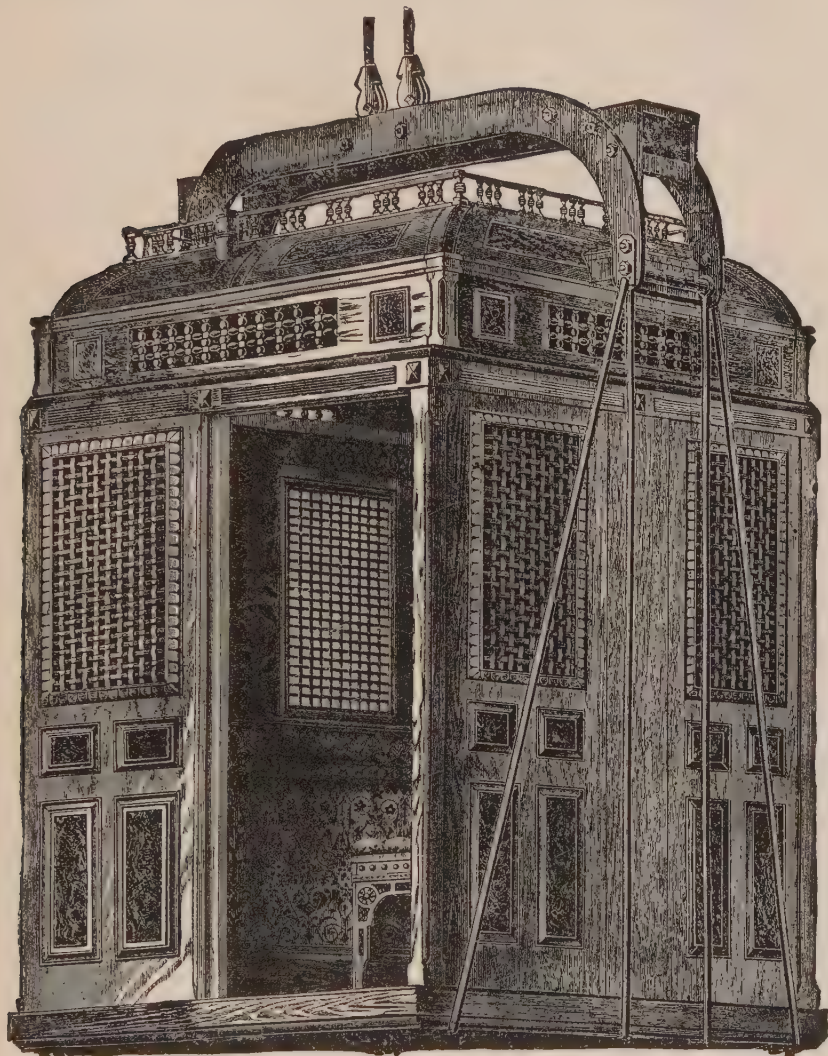
MORSE, WILLIAMS & Co.

ELECTRIC AND HYDRAULIC
HIGH SPEED

PASSENGER ELEVATORS

FREIGHT ELEVATORS

STEAM, BELT AND HAND
POWER



When you visit the Exposition, take a ride in our Direct Electric Passenger Elevator
in the Transportation Building.

WORKS: FRANKFORD AVE., WILDEY AND SHACKAMAXON STS., **PHILADELPHIA.**

OFFICES:

1105 FRANKFORD AVE., PHILADELPHIA.

33 LINCOLN ST., BOSTON.

1116 E. ST., N. W., WASHINGTON, D. C.

423 OMAHA BUILDING, CHICAGO

108 LIBERTY ST., NEW YORK.

82 CHURCH ST., NEW HAVEN.

425 SPRUCE ST., SCRANTON, PA.

D.M. SECHLER

CARRIAGE CO.

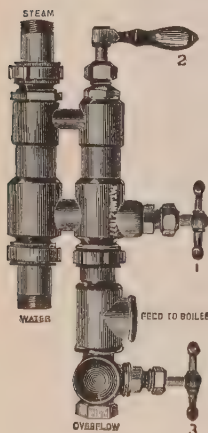
MOLINE, ILL.

MANUFACTURERS OF
BUGGIES
CARRIAGES
CARTS, ETC.

Illustrations include:
 - Top left: Carriage No. 9
 - Top right: Carriage No. 22
 - Center: Factory building
 - Bottom left: Carriage No. 11
 - Bottom right: Carriage No. 65

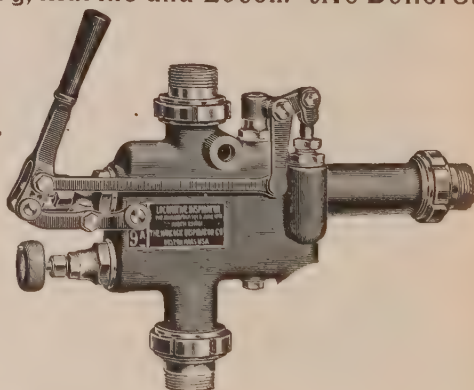
Hancock Inspirators and Ejectors.

THE STANDARD



For Feeding Stationary, Marine and Locomotive Boilers.

GREATER RANGE,
MORE RELIABLE,
LESS COST. ❖ ❖



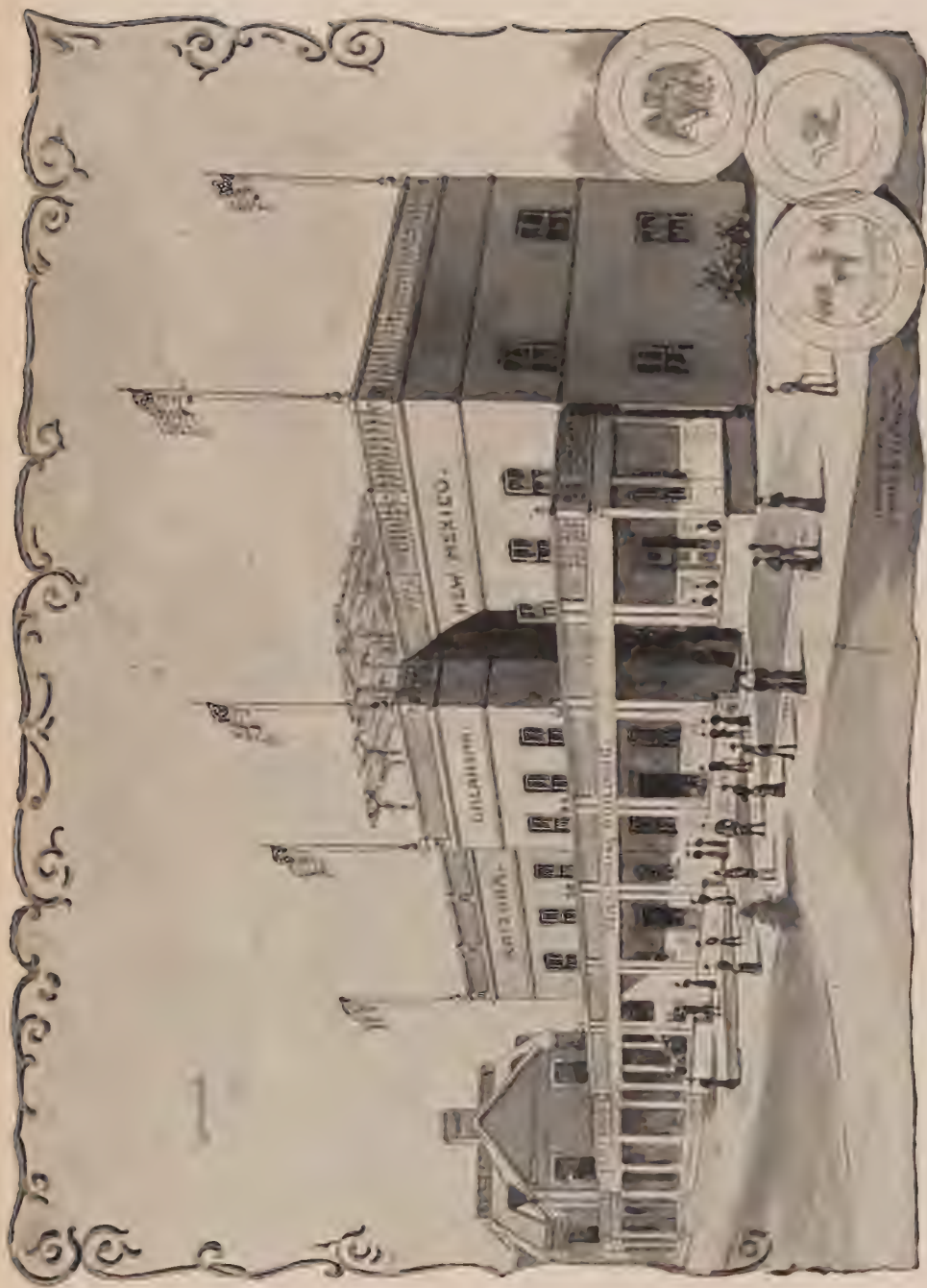
200,000 IN DAILY USE.

Have never failed to take first prize over all competitors, and we challenge the world to produce their equal in simplicity, thoroughness of construction, reliability, range of duty, and general efficiency. If you have a boiler to feed, or wish to pump water or other liquids, write for information and price.

FOR SALE EVERYWHERE.

Manufactured by the **HANGOCK INSPIRATOR CO., Boston, Mass., U. S. A.**

See our Exhibit in Machinery Hall—Location, K-L-33.



ARIZONA, OKLAHOMA AND NEW MEXICO TERRITORIAL BUILDING.

AMES & FROST COMPANY.

MAKERS OF
"Imperial"

STRICTLY
HIGH GRADE
AND
GUARANTEED

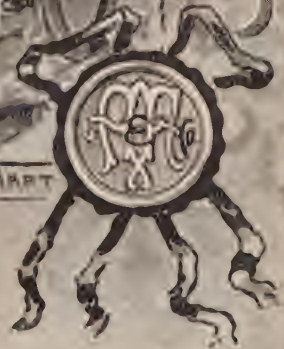
WORKS
BLACKHAWK ST.
AND
CHERRY AVE.
PRINCIPAL OFFICES

302-304 WABASH AVE.

CHICAGO ILL.
U.S.A.



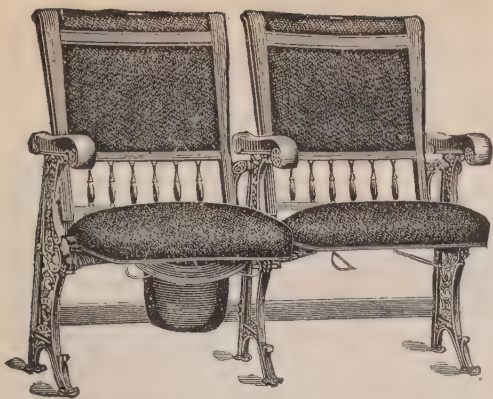
BI
CY
CLES





VIRGINIA STATE BUILDING.

COPYRIGHTED



ANDREWS-DEMAREST SEATING CO.

108 East 16th Street,
NEW YORK CITY.

(Two doors east of Union Square.)

OPERA CHAIRS,
CHURCH, HALL AND
LODGE FURNITURE.

FOR EXHIBIT—SEE

WESTON & WELLS MFG. CO.,
"Torsion Braided Wire Springs,"
Section B, Gallery,
TRANSPORTATION BUILDING.

ELKHART CARRIAGE AND HARNESS MFG. CO.

No. 1. Farm Harness. Have sold to consumers for 20 years. **No. 119 Road Wagon.**
saving them the dealers' profits. We are the oldest and largest manufacturers in America selling Buggies and Harness this way. Ship with privilege to examine before any money is paid. We pay freight both ways if not satisfactory. War-
rant for two years. Why pay an Agent \$10 to \$50 to order for you? Write your own order. Boxing free. We take all the risk of damage in shipping.



\$24.50.



\$27

WHOLESALE PRICES.

Spring Wagons, \$35 to \$50. Guaranteed same as sell for \$50 to \$65. Surreys, \$70 to \$100, same as sell for \$100 to \$130. Top Buggies at \$42, fine as sold at \$75. Phaetons at \$75 to \$100. Wagonettes, Milk Wagons, Delivery Wagons and Road Carts.

No. 41. Wagon. \$43.



OUR HARNESS

are all No. 1 Oak-tanned Leather. Single \$8 to \$20; Double Buggy, \$18 to \$35. Riding Saddles and Fly Nets. 3 per cent. off for cash with order. 64-page illustrated Catalogue free. Address



No. 718 1/2
\$42.

W.B. PRATT, Sec'y, ELKHART, IND.



GLOBE YARN MILLS

CAPITAL, \$1,200,000. 100,000 SPINDLES.
WEEKLY PRODUCT, 120,000 LBS. 14s TO 160s.

Cotton Yarns, superior qualities, specially adapted for Silk, Plush, Upholstery and Hosiery Manufacturers. American Peelers, Sea Island, Egyptian Cottons, Superior Qualities Combed and Carded, furnished in Singles, 2, 3, 4 and 6-ply. Chain Warps, Skeins, Beams, Spools, Tubes, Cones and Lisle Thread Yarns. Cops for Weaving and Twisting. Cops for Hosiery.

ARNOLD B. SANFORD, TREASURER.
MILLS AND OFFICE, FALL RIVER, MASS.

ARNOLD B. SANFORD, PRESIDENT. ARTHUR H. MASON, TREASURER.
CAPITAL STOCK, \$400,000.

SANFORD SPINNING CO.

FALL RIVER, MASS.

30,000 SPINDLES. WEEKLY PRODUCT, 50,000 LBS. 14s to 40s.

NOVELTY COTTON YARNS
FROM AMERICAN PEELERS AND EGYPTIAN COTTONS.

OUR SPECIALTY: Superior qualities of Hosiery Yarns, Natural Shades of Cottons and in Colors, Jaegers, Mixes and Bleached, Hosiery Cops on Long Tubes, Skeins, Tubes, Cones and Lisle Thread Yarns. Furnished in Carded and Combed Qualities in Singles, in 2, 3 and 4 plies,



CLOUGH & MACONNELL
CLOUGH'S IMPROVED
VIAL CORKSCREWS
AND CAPSULES
PRICES 10 CENTS PER GROSS AND UPWARD
132 NASSAU STREET
NEW YORK.



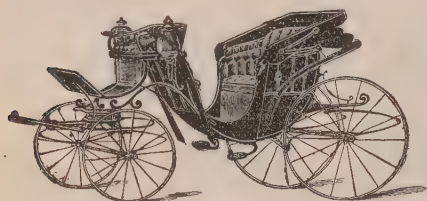
AUTOMATIC MACHINES IN OPERATION,

MACHINERY HALL, SECTION 13-I-38,

WORLD'S COLUMBIAN EXPOSITION

PATENTS Nos. 302,321—332,382—
337,309—441,137—474,055.

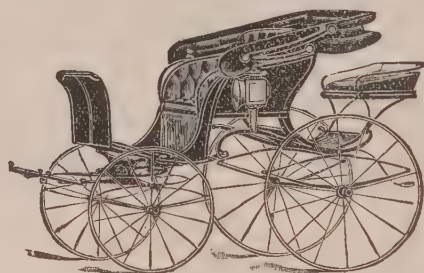
AN AMERICAN INDUSTRY
FOUNDED BY W. R. CLOUGH,
THE ORIGINAL INVENTOR AND PATENTEE OF
THE WIRE CORKSCREW.
200,000,000 MADE AND SOLD TO
JAN. 1, 1893.



STAVER & ABBOTT
MFG. CO.

Fine Carriages and Harness

♦♦♦♦
Victorias
Broughams
Landaus
 ♦♦♦♦



♦♦♦♦
Buggies
Surreys
Phaetons
 ♦♦♦♦

..... THE
LARGEST AND FINEST DISPLAY IN CHICAGO

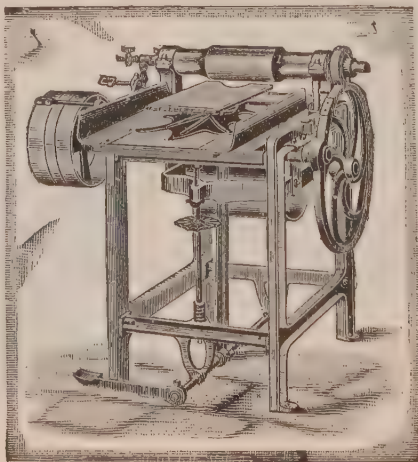
REPOSITORY

381-383-385 Wabash Avenue

See our Display in Transportation Building,
Main Aisle, near North Entrance.



'THE SINGLAIR'
IS THE FIRST
AND THE BEST.



F. A. WALKER,
PRESIDENT

M. B. FITHIAN,
SECRETARY

S. H. SINGLAIR CO.

MANUFACTURER OF

LAUNDRY
MACHINERY

8 and 10 South Canal Street,
CHICAGO.



IOWA STATE BUILDING.

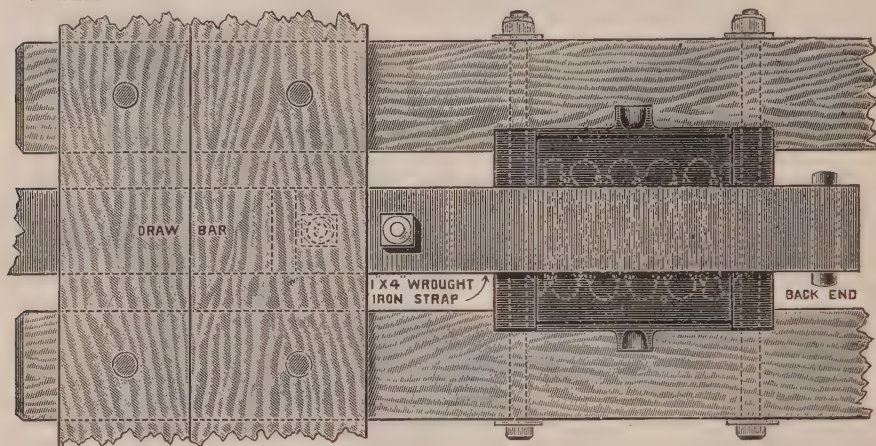
THE BUTLER DRAWBAR ATTACHMENT

175,000 SET NOW IN USE.

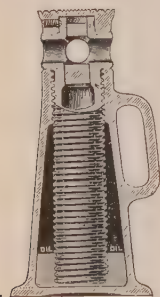
GIVING ENTIRE SATISFACTION.

FEWEST NUMBER OF PIECES.

COSTS LESS THAN ANY DEVICE ON THE MARKET OFFERING ABSOLUTE SECURITY.



BUTLER DRAWBAR ATTACHMENT CO.
CLEVELAND, OHIO.

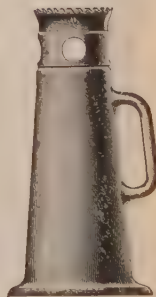


THE CHAPMAN JACK

PATENTED.

Always Lubricated and Ready for Instant Use.

PARTICULARLY WELL ADAPTED FOR MARINE SERVICE.



MOST POWERFUL SCREW JACK MADE.



A test of No. 12 under pressure stood at 30 tons, no damage.

“ “ “ “ “ 35 “ screw slightly bent.

“ “ “ “ “ 46 “ screw crushed.

Being Carefully Fitted and Well Proportioned Gives Great Strength.

PRICE LISTS AND ANY OTHER INFORMATION GIVEN ON APPLICATION.

THE CHAPMAN JACK CO.
CLEVELAND, OHIO

NEW YORK CENTRAL & HUDSON RIVER R. R.

AMERICA'S GREAT
FOUR TRACK TRUNK LINE
12 TRAINS A DAY

... BETWEEN ...

NEW YORK AND CHICAGO

... DURING THE ...

WORLD'S FAIR

... DIRECT LINE BETWEEN THE ...

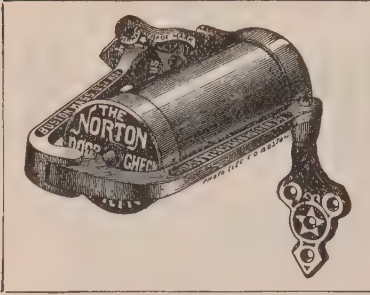
EAST ^{AND} NIAGARA FALLS

This Line lands you in the very center of New York City, within from one
to twenty minutes of over 70 of the great hotels.

GEO. H. DANIELS,
General Passenger Agent,
NEW YORK.

W. B. JEROME,
Gen'l Western Passenger Agent,
CHICAGO.

THE NORTON DOOR CHECK AND SPRING



.... FOR SALE ALL OVER THE WORLD....

Baltimore, Md.—C. W. Simpson, 4 S. Fred St.
Boston, Mass.—W. F. Adams, 35 Arch St.
Chicago, Ill.—Orr & Lockett H. Co., 50 State St.
New York, N. Y.—H. A. Berry, 51 Dey St.
Philadelphia, Pa.—H. A. Berry, 20 N. 7th St.
San Francisco, Cal.—F. D. Morrell, 224 Market St.
And principal cities throughout the country.
Canada—Aikenhead H. Co., 6 Adelaide St., Toronto, Ontario.
Europe—J. M. Richards, 46 Holborn Viaduct, London, England.

THE NORTON DOOR CHECK & SPRING CO.

505 SEARS BUILDING, - - - BOSTON, MASS.

THE BURTON METHOD OF PRODUCING ELECTRIC HEAT.

ELECTRICAL FORGING COMPANY

BOSTON, MASS., U. S. A.

Manufacturers of Steel, Iron, Brass and Copper Forgings by Electric Heat.

ALSO ALL KINDS OF ELECTRIC METAL WORKING MACHINERY.

PROCESS AND MACHINES PROTECTED BY OVER 100 U. S. PATENTS.
CATALOGUE FREE.

GENERAL OFFICE, 194 WASHINGTON ST., FACTORY, 163-167 OLIVER ST.,
BOSTON. BOSTON.

AMERICAN SHIP WINDLASS CO.,

ESTABLISHED 1857.

PROVIDENCE, R. I.

Builders of the Celebrated

“Providence” Windlasses and Capstans.

Acknowledged by practical men to be the Best in the World.

Labor Saving Devices for Use on Vessels, Wharves, in Shipyards, Etc.

Send for Illustrated Catalogue. Address

FRANK S. MANTON, Agent.

ROCHESTER WHEEL CO.

 ROCHESTER, N. Y.

MANUFACTURERS OF FINE GRADES OF

LIGHT AND HEAVY

 **WHEELS** 

WARNER PATENT
SARVEN PATENT
KINNEY PATENT
PLAIN WOOD HUB
COMPRESSED BAND

FROM 03 TO 63 FLANGE; FROM 7-8 TO 2 1-4 SPOKE.

GOOD GOODS. REASONABLE PRICES AND PROMPT SHIPMENTS.
ORDERS SOLICITED.

See our Exhibit in Transportation Building, Vehicle Division, Section A, Block II.

SIMPSON, HALL, MILLER & CO.

WALLINGFORD, CONNECTICUT,

U. S. A.

Manufacturers of the Highest Grade of



Quadruple Gold and Silver Plate

... INCLUDING THE ...

FINEST LINE OF REPOUSSE GOODS in the market



Embracing Candelabra, Toilet Ware and numerous other articles in artistic and novel designs.

Our new patterns in Repousse Flat Ware, the HARVARD and YALE, comprising full lines of these goods, are now ready for market and can be furnished with our name on, or the purchaser's name, as may be desired.



Also manufacturers of the celebrated WM. ROGERS brand of KNIVES, FORKS, SPOONS, etc., made under personal supervision of Mr. Wm. Rogers.

Our new Catalogue of novelties in Toilet and Stationery Goods for 1893 will be sent upon application; also our Catalogue of full line of our manufactures.



TRADE MARK FOR



HOLLOW WARE.

Factories and Principal Office:

WALLINGFORD, CONNECTICUT, U. S. A.

TRADE MARK FOR



KNIVES, FORKS, SPOONS

SALESROOMS:

36 East 14th Street, Union Square, NEW YORK, U. S. A.

141 and 143 State Street, CHICAGO, ILL., U. S. A.

18 De Bresoles Street, MONTREAL, CANADA.



Horticultural Building~

Copied from the 1893
Chicago World's Fair
Chicago, Ill.

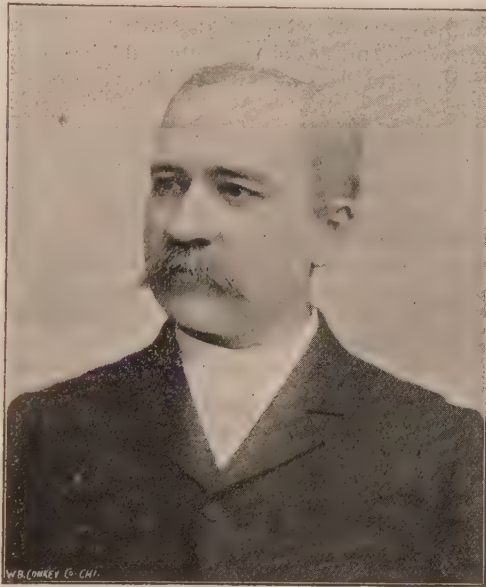
DEPARTMENT B--HORTICULTURE.

THE Horticultural Building occupies an advantageous position on the west side, midway between the north and south boundaries of the park. It presents a magnificent front of 1,000 feet, facing the lagoon and island, and has an extreme width of 287 feet. It is the largest and grandest building ever erected for a horticultural exhibition, and contains about 89,000 square feet more of exhibiting space than the combined floor areas of the buildings used for a similar purpose at the Centennial, New Orleans and Paris expositions.

The varied classification of the horticultural department necessarily requires a building adapted to diverse uses. Its general plan is an imposing, central, glazed dome, 114 feet high on the inside and 187 feet in diameter, tending around a circular gallery or open cenotaph-shaped pavilion, called curtains, connect the dome and central pavilion, forming two interior courts 90 feet wide by 270 feet long. Each end pavilion is two stories high, with an area of 117 by 250 feet on each floor. The style is Venetian renaissance, the order of frieze decorated with garlands. A high vestibule, with statues on either side, representing the awakening of flowers, forms the main entrance and grand entrance. Opposite the main entrance, flanked on either side along the lagoon with long vases filled with flowers and trailing plants, is a succession of steps leading down to a broad landing, for picturesque gondolas and other water craft. The dome is sufficiently large to admit of the construction of a miniature tropical mountain and an extensive cave underneath. Several cascades are formed upon the sides of the mountain, and the sparkling waters leap from rock to rock under the foliage of the largest palms, tree ferns and other tropical plants that have ever been collected in a conservatory. Australia, many Central and South American countries, Africa and every nation in Europe, the West Indies, China, and the largest conservatories in the United States have contributed to the collection of plants which are exhibited in the dome and east curtains. Japan, among many rare plants, furnishes some dwarf trees more than 100 years old and only a few feet in height. The entire cave is constructed of stalagmites, stalactites and quartz crystals from a South Dakota cave, and the numerous electric lights placed within it produces a most dazzling and pleasing effect.

The dome gallery contains exhibits of herbariums, florists' supplies, fruit and flower plates, etc., and is used as a promenade from which to look down on the plant displays.

The west curtains, in which the pomological exhibit is installed, aggregate 692 feet in length and are 46 feet wide. The 35,000 plates and jars of fruits are



J. M. SAMUELS, CHIEF.

from every part of the world, and are represented either in fresh specimens, wax models, or varieties preserved in fluids.

Every country in which the grape is grown extensively; is making a display of wines on the first and second floors of the south pavilion. France, Spain, Portugal, Italy, Germany and other foreign countries are in the contest for honors in the greatest viticultural exhibition that has ever taken place.

Each floor of the north pavilion is devoted to seeds, horticultural appliances, canned and dried fruits, jellies, marmalades, etc. The largest seed firms of Europe and America are well represented; improved horticultural machinery is extensively exhibited; the canned fruit displays are elaborate and tastefully arranged, and there is in this pavilion a miscellaneous list of exhibits interesting to all classes of visitors.

A bearing orchard of oranges, lemons and other citrus fruits fills the entire north court; while the opposite court on the south contains a typical wine cellar from the Rhine, in Germany, and several basins of artificially heated water in which are grown the *Victoria Regia* with its enormous leaves, and other water plants.

Artistically arranged flower beds occupy the space in front of the Horticultural Building, while on the area back, there is a varied exhibit of greenhouses, constructed by leading firms, and filled with rare collections of plants.

The central feature in the landscape architecture of the entire grounds is the island; from it the best view can be obtained of all the department buildings. The flower beds and walks have been designed with special reference to exhibiting to good advantage semi-hardy rhododendrons, azaleas, kalmias, conifers, roses, etc. Foreign countries have been the most liberal contributors and the exhibition of large and rare specimens is unequalled.

Five acres at the western entrance of the Midway Plaisance is assigned for a nursery exhibit. France is making a very interesting display in fruit trees trained into various forms and grafted in different ways, as well as a great variety of evergreen and deciduous shrubs. The State of Wisconsin illustrates with bearing plants, improved methods of growing and flooding cranberry marshes. An acre in bearing orange trees and many exhibits of deciduous and evergreen trees and shrubs make very attractive displays.

COLD STORAGE.—Cold storage rooms are conveniently located for preserving fruits and cut flowers, and many dealers in refrigerating machinery make competitive tests in the class provided for that purpose.

WATER.—Very liberal provision has been made for water, with stand-pipes at frequent intervals, to which hose can be attached for sprinkling.

HEAT.—The dome and front curtain are heated sufficiently to provide a proper temperature for the most tender tropical plants. More than ten miles of 1¼-inch steam pipe is needed for this purpose.

AUXILIARY GREENHOUSES.—Near the Horticultural Building greenhouses aggregating 25,000 square feet have been constructed, and are used for recuperating plants injured from any cause, and for the purpose of developing them to the highest degree of perfection before placing them on exhibition.

PROPAGATING HOUSES AND FRAMES.—Eight large propagating houses, covering a space of 20,000 square feet, have been provided. Limited room in these houses has been assigned to exhibitors who will propagate plants of unusual merit, which can not be transported from their distant homes, and the balance is devoted by the department to growing a reserve collection of plants with which to replace specimens that have ceased to be attractive and for storing those whose season of beauty has passed. A large number of cold frames occupy adjacent grounds, to be used for cultivating pansies, various annuals and bulbs and for the storage of half-hardy plants. The classification provides for complete exhibits of green and hot houses and conservatories, with best methods of heating and ventilating them.

OUT-DOOR SPACE.—The space assigned to the department for exhibits of

trees, shrubs and plants which will be hardy in the open ground during the time of the Exposition, embraces about twenty-five acres, and includes the greater part of a beautiful island, centrally located, artistically laid out in beautiful walks, and the choicest part of the grounds. Through this entire area has been placed a complete network of pipes to supply all the water necessary to insure a vigorous and healthy growth of all trees, shrubs and plants. Displays of deciduous shrubs, roses, pæonies, and such herbaceous plants as delphiniums, pyrethrums, etc., have been, in many instances, already permanently placed.

FLORICULTURE.

About a week before the opening of the Exposition the management paid Mr. John Thorpe a decided compliment. Mr. Thorpe's title was Superintendent of Floriculture. The management raised the Bureau of Floriculture to a department and made Mr. Thorpe chief. Horticulture will remain as before under the charge of Chief Samuels, but the two departments will be distinct. The show of flowers was the center of attraction on the grounds before the opening of the Exposition and its proportions have surpassed the wildest expectations of the officers themselves. There is no one to whom more credit is due than Mr. Thorpe. He has worked with the energy of six men, toiled night and day, and knows every detail of the exhibit.

The plan for the exhibits of flowers from the opening until the closing of the Exposition is as follows :

MAY.

Indoors—Roses in pots, calceolarias, azaleas, ericas, rhododendrons, begonias, cyclads, crotons, dracænas, aroids, marantas, palms, ferns, cacti, pelargoniums, miscellaneous stove and greenhouse plants in foliage, miscellaneous stove and greenhouse plants in flower.

Cut Flowers—Orchids, roses, carnations, lilies, pansies, miscellaneous hardy bulbs and other varieties, miscellaneous tender varieties.

Out of Doors—Pansies, tulips, hyacinths, narcissus, miscellaneous bulbous flowers, miscellaneous herbaceous flowers, miscellaneous flowering shrubs.

JUNE.

Indoors—Orchids, carnivorous plants, begonias, fuchsias, petunias, cannas, nepenthes, palms, ferns, cacti, miscellaneous stove and greenhouse plants in foliage, miscellaneous stove and greenhouse plants in flower.

Cut Flowers—Roses, carnations, lilies, peonies. Miscellaneous cut flowers, tender; miscellaneous cut flowers, hardy.

Outdoors—Campanulas, aquilegias, miscellaneous hardy herbaceous flowers, miscellaneous hardy shrubby flowers.

JULY.

Indoors—Orchids, tuberous begonias, ornamental-leafed begonias, shrubby begonias in flower, gloxinias, achimenes, gesneraceous plants, coladiums, palms, ferns, cacti.

Cut Flowers—Orchids, cannas, lilies, tuberous begonias, sweet peas, hollyhocks, tea roses, various annuals, miscellaneous hardy herbaceous, miscellaneous hardy shrubby.

Outdoors—Lilies, sweet peas, tea roses, clematis, various annuals, miscellaneous herbaceous plants.

AUGUST.

Indoors—Palms, ferns, cacti, orchids.

Cut Flowers—Orchids, roses, carnations, dianthus, gladiolus, asters, sweet peas, phlox herbaceous, phlox annuals, zinnias tall, zinnias dwarf, miscellaneous annuals, miscellaneous herbaceous.

Outdoors—Carnations, dianthus, dahlias, gladiolus, cannas, asters, sweet peas, verbenas, clematis, hollyhocks, hydrangeas, tuberous begonias, palms, ferns, cacti, aquatics hardy, aquatics tender, phlox hardy, phlox annual ornamental grasses.

SEPTEMBER.

Indoors—Palms, ferns, cacti, orchids, tuberous begonias, asters in pots, miscellaneous stove and greenhouse plants in foliage, miscellaneous stove and greenhouse plants in flower.

Cut Flowers—Carnations, tea roses, dahlias, gladiolus, cannas, petunias, asters, zinnias, phlox hardy, phlox annual, miscellaneous annuals, miscellaneous hardy herbaceous flowers, cut flowers in designs.

Outdoors—Roses, carnations, dahlias, gladiolus, cannas, tuberous begonias, petunias, asters, zinnias, verbenas, phlox hardy, phlox annual, miscellaneous annuals, miscellaneous herbaceous flowers.

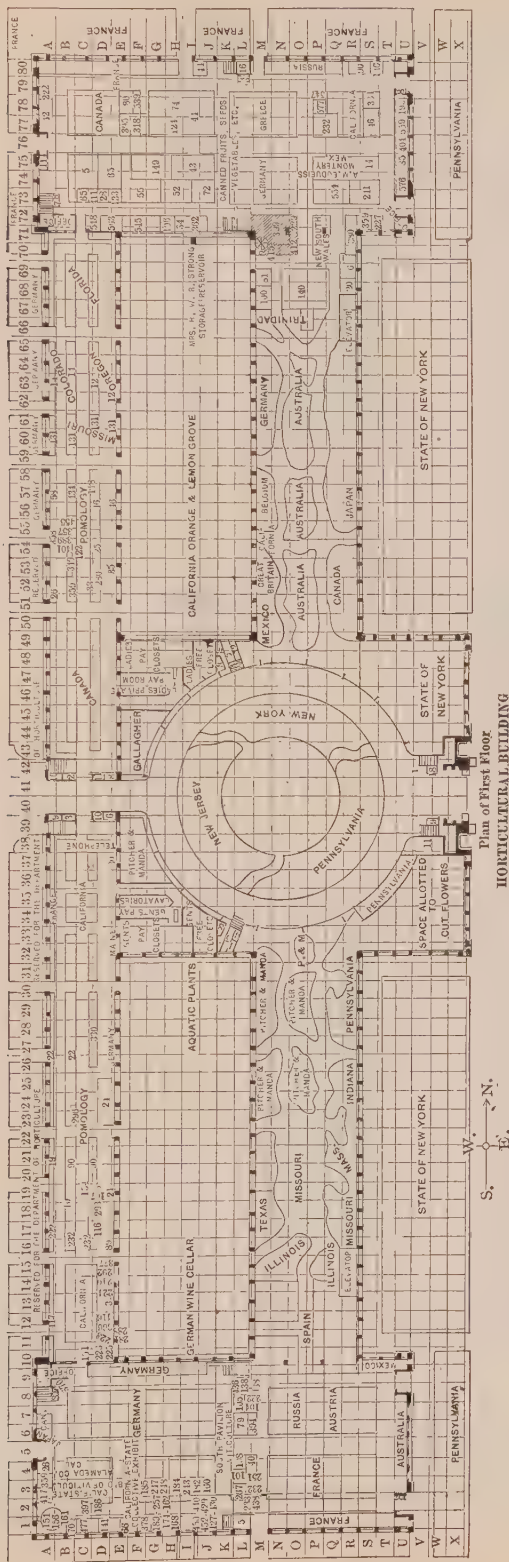
OCTOBER.

Indoors—Palms, ferns, cacti, orchids, chrysanthemums, pelargoniums, tuberous begonias, cosmos.

Cutflowers—Chrysanthemums, dahlias, cannas, roses, carnations, tuberous begonias, pansies. Miscellaneous—tender, hardy.

Outdoors—Chrysanthemums, dahlias. Miscellaneous, hardy.

Cut-flower exhibits will be made on Tuesday of each week during the whole Exposition, commencing at noon. There will also be exhibits of designs for house decoration on these and other days, especially during September and October. On account of the condition of temperature and situation such cut flowers as embrace roses, gladioli, asters, zinnias and some other flowering plants, are to be displayed from the latter part of May to July 11th from the South, and from four to six weeks later from the Northern States.



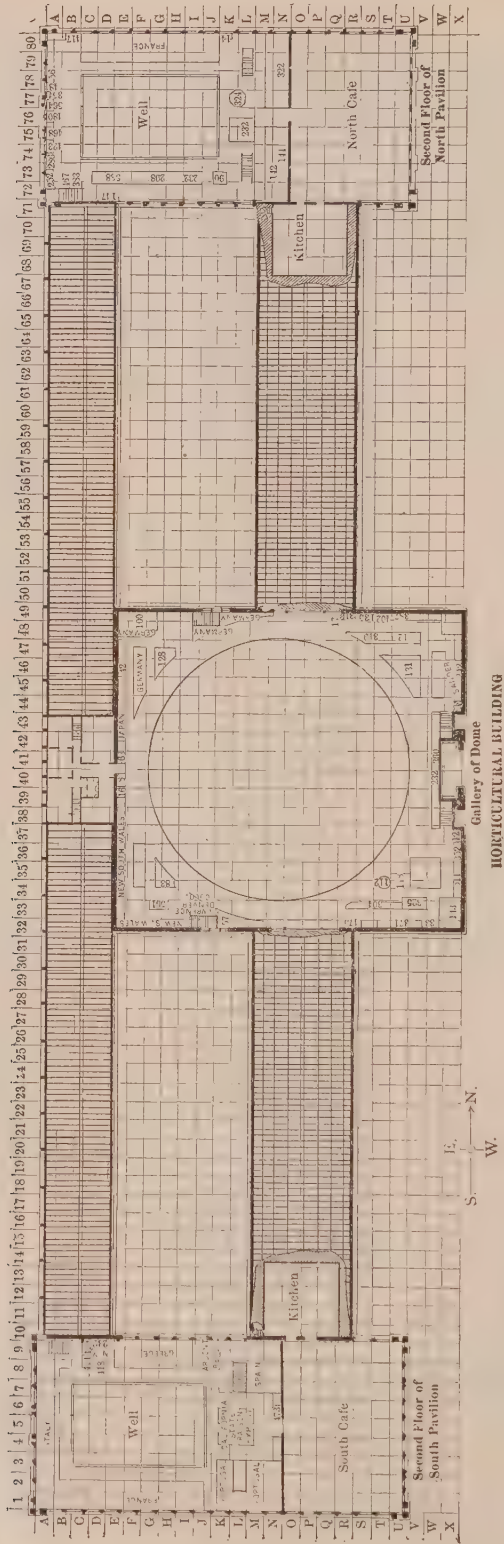
COPYRIGHTED 1893,
BY THE

WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO.

KEY TO INSTALLATION.

As shown by the plans of the Horticultural Building, the entire ground floor proper is laid off into sections extending from east to west, and indicated by a number marked on each gallery post. The floor spaces are crossed from north to south, and lettered from A to Z in regular order, each space being in the form of a square. In the center of various exhibits of tropical plants are made. On each side of the building is a large room, known as the north and south curtains, and adjoining these are open courts for open air exhibits. The numbers on the second or gallery floor are the same as on the first floor. The location of an exhibit will be readily found by referring to the letter and figure following it in the entry, or after the name of a country, or State, and by referring to these in the floor plans.

WORLD'S COLUMBIAN EXPOSITION.



COPYRIGHTED 1893,
BY THE
WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO.

CLASSIFICATION.

HORTICULTURAL DEPARTMENT (B.)

HORTICULTURE, VITICULTURE, POMOLOGY, FLORICULTURE, ETC.

GROUP 20.

VITICULTURE, MANUFACTURED PRODUCTS. METHODS AND APPLIANCES.

- Class 119. The vine and its varieties—shown by living examples, by cuttings, by engravings, photographs, etc.
- Class 120. Methods of planting, staking, and training the vine.
- Class 121. Vineyards and their management.
- Class 122. Grapes for the table.
- Class 123. Grapes for wine-making.
- Class 124. Grapes for drying—raisin grape culture.
- Class 125. Methods of and appliances for cultivating, harvesting, curing, packing and shipping grapes.
- Class 126. White wines.
- Class 127. Red wines, clarets, Zinfandel, Burgundies.
- Class 128. Sherries, Madeira, Port.
- Class 129. Sparkling wines.
- Class 130. Methods of expressing the juice of the grape; of fermenting, storing, racking, bottling and packing. Wine cooperage.
- Class 131. Brandy of all kinds; methods and apparatus for the production of brandy.
- Class 132. Literature, history, and statistics of viticulture.

GROUP 21.

POMOLOGY, MANUFACTURED PRODUCTS, METHODS AND APPLIANCES.

- Class 133. Pomaceous and stone fruits—pears, apples, plums, peaches, nectarines, apricots, cherries, etc.
- Class 134. Citrus fruits—oranges, lemons, limes, shaddocks, etc.
- Class 135. Tropical and subtropical fruits—bananas, pineapples, guavas, mangoes, sapodillas, tamarinds, figs, olives, etc.
- Class 136. Small fruits—strawberries, raspberries, blackberries, gooseberries, currants, etc.
- Class 137. Nuts—almonds, pecans, chestnuts, filberts, walnuts, etc.
- Class 138. Casts and models of fruits; imitations in wax, etc.
- Class 139. Dried and evaporated apples, peaches, pears and other fruits. Prunes, figs, dates, etc., in glass or boxes.
- Class 140. Fruits in glass or cans, preserved in syrup or alcohol.
- Class 141. Jellies, jams, marmalades.
- Class 142. Fruits glacéd.
- Class 143. Cider, perry, vinegar and expressed juices of berries.
- Class 144. Methods for crushing and expressing the juices of fruits and berries. Apparatus and methods of dessicating; apparatus for making vinegar, etc. Cider mills and presses.
- Class 145. Methods for preserving all fruits by cold storage or chemical appliances; their keeping, packing and shipping.
- Class 146. Literature, history and statistics.

GROUP 22.

FLORICULTURE.

- Class 147. Roses.
- Class 148. Carnations.
- Class 149. Orchids.
- Class 150. Rhododendrons, azaleas, etc.
- Class 151. Chrysanthemums.
- Class 152. Dahlias, gladiolus, etc.
- Class 153. Ornamental bulbous flowering plants. Hyacinths, narcissus, etc.
- Class 154. Pelargoniums, zonal and show.
- Class 155. Bedding plants and flowering annual plants.
- Class 156. Climbing plants.
- Class 157. Perennials and flowering shrubs not otherwise specified.
- Class 158. Miscellaneous annuals, phlox, asters, etc.
- Class 159. Palms.
- Class 160. Ferns.
- Class 161. Ornamental leaf plants.

- Class 162. Cactaceæ.
- Class 163. Aquatic plants.
- Class 164. Native wild plants and flowers.
- Class 165. Ornamental grasses and reeds.
- Class 166. Rare exotic plants.
- Class 167. Cut flowers. Floral designs, pressed flowers, leaves, sea-weeds and bouquets.
- Class 168. Plants grown for commercial purposes.
- Class 169. Receptacles for plants, flower pots, plant boxes, fern cases, tubs, jardinières, plant and flower-stands, ornate designs in flower stands.
- Class 170. Literature, history and statistics.
- Class 171. Miscellaneous.

GROUP 23.

CULINARY VEGETABLES.

- Class 172. Leguminous; cereal and fruit-like vegetables. Beans, peas, okra, peppers, tomatoes, cucumbers, squashes, pumpkins, melons, etc.
- Class 173. Radicaceous and tuberous vegetables. Beets, turnips, carrots, potatoes, radishes, etc.
- Class 174. Vegetables cultivated for their leaves and sprouts. Cabbage, lettuce, rhubarb, spinach, endive, asparagus, etc.
- Class 175. Miscellaneous culinary vegetables not included in the above.
- Class 176. Vegetables dried or in cans or glass.
- Class 177. Pickles, champignons, truffles, chutney, mustard, etc.
- Class 178. Methods for preserving vegetables by cold storage or chemical appliances, their keeping, packing, and shipping.

GROUP 24.

SEEDS, SEED RAISING, TESTING AND DISTRIBUTION.

- Class 179. Display of vegetable and flower seeds, grown in different latitudes.
- Class 180. General display of flower and vegetable seeds by seed houses or growers.
- Class 181. Methods of growing, harvesting, and preparing flower, vegetable, tree, and shrub seeds.
- Class 182. Seed warehouse, methods of burnishing and packing for the retail trade. Work of packing, etc., in operation.
- Class 183. Methods of testing vitality of seeds, as practiced by different seed houses.
- Class 184. Tree and shrub seeds, and seeds used for condiments and medicines.

GROUP 25.

ARBORICULTURE.

- Class 185. Ornamental trees and shrubs. Methods of growing, transplanting, etc.
- Class 186. Fruit trees and methods of raising, grafting, transplanting, pruning, etc. Means of combatting insects and other enemies.
- Class 187. Nurseries and the nursery trade.

GROUP 26.

APPLIANCES, METHODS, ETC.

- Class 188. Hot houses, conservatories, methods of construction, management and operation.
- Class 189. Heating apparatus for hot houses and conservatories.
- Class 190. Seats, chairs and adjuncts for the garden and conservatory.
- Class 191. Ornamental wire work, trellises, fences, borders, labels for plants and trees, etc.
- Class 192. Garden and nursery administration and management. Floriculture and arboriculture as arts of design and decoration. Laying out gardens, designs for the laying out of gardens and the improvement of private residences. Designs for commercial gardens, nurseries, graperies; designs for the parterre; treatment of water for ornamental purposes; cascades, fountains, reservoirs, lakes; formation and after treatment of lawns. Garden construction, building, etc. Rockwork grottoes; rustic construction and adornment for private gardens and public grounds. Planting, fertilizing, cultivating and appliances.

Department B.--Horticulture.

UNITED STATES.

GROUP 20.

Viticulture, Manufactured Products.
Methods and Appliances.

- | | | | | |
|--|------|-----|--|----------|
| 1. Albaugh Georgia Fruit Co., Tadmor, O. Grapes. | A-57 | 122 | <i>g</i> Red wines, dry. | 127 |
| 2. American Wine Co., St. Louis, Mo. | | | <i>h</i> Sweet wines. | 128 |
| <i>a</i> White wines dry. | L-6 | 126 | <i>i</i> Brandies. | 131 |
| <i>b</i> Red wines, dry. | | 127 | <i>j</i> Literature, history and statistics. | 132 |
| <i>c</i> Sparkling wines. | | 129 | 15. Carpy & Co., San Francisco. | |
| 3. Baldwin, C. A., Cupertino, Cal. | | | <i>a</i> White wines, dry. | I-4 126 |
| <i>a</i> White wines, dry. | D-2 | 126 | <i>b</i> Red wines, dry. | 127 |
| <i>b</i> Red wines dry. | | 127 | <i>c</i> Sweet wines. | 128 |
| 4. Bannier, John, Egg Harbor City, New Jersey. Red wines, dry. | B-8 | 127 | <i>d</i> Brandy. | 131 |
| 5. Barton Estate, Ltd., Fresno, Cal. | | | 16. Chauchi, A. G., Livermore, Cal. | |
| <i>a</i> White wines, dry. | F-3 | 126 | <i>a</i> White wines, dry. | C-4 126 |
| <i>b</i> Red wines, dry. | | 127 | <i>b</i> Red wines, dry. | 127 |
| <i>c</i> Sweet wines, dry. | | 128 | <i>c</i> Sweet wines. | 128 |
| <i>d</i> Brandy. | | 131 | 17. Chautauqua & Northeast Grape Union, Chautauqua, N. Y. Grapes. | D-18 118 |
| 6. Beard, John L., Warm Springs, Cal. | | | 18. Crabb, H. W., Oakville, Cal. | |
| <i>a</i> White wines, dry. | C-4 | 126 | <i>a</i> White wines, dry. | G-3 126 |
| <i>b</i> Red wines, dry. | | 127 | <i>b</i> Red wines, dry. | 127 |
| 7. Becker, Wm., Kelly's Island, Ohio. | | | <i>c</i> Sweet wines. | 128 |
| <i>a</i> Table grapes. | A-57 | 122 | <i>d</i> Brandy. | 131 |
| <i>b</i> Wine grapes. | | 123 | 19. Crellin, J., & Son, Livermore, Cal. | |
| 8. Ben Lomond Wine Co., San Francisco. | | | <i>a</i> White wines, dry. | C-4 126 |
| <i>a</i> White wines, dry. | F-3 | 126 | <i>b</i> Red wines, dry. | 127 |
| <i>b</i> Red wines, dry. | | 127 | <i>c</i> Brandy. | 131 |
| 9. Beringer Bros., St. Helena, Cal. | | | 20. Cupertino Wine Co., Mountain View, Cal. | |
| <i>a</i> White wine, dry. | H-1 | 126 | <i>a</i> White wines, dry. | D-2 126 |
| <i>b</i> Red wine, dry. | | 127 | <i>b</i> Red wines, dry. | 127 |
| <i>c</i> Sweet wine, dry. | | 128 | 21. Davisson, D. D., Sonoma, Cal. | |
| <i>d</i> Brandy. | | 131 | <i>a</i> White wines, dry. | F-3 126 |
| 10. Billings, F. W., Redwood City, Cal. | | | <i>b</i> Red wines, dry. | 127 |
| <i>a</i> White wine, dry. | F-3 | 126 | <i>c</i> Sweet wines. | 128 |
| <i>b</i> Red wine, dry. | | 127 | <i>d</i> Brandy. | 131 |
| 11. Boettcher, H., Los Angeles, Cal. | | | 22. Delafield, Robert H., Calistoga, Cal. | |
| <i>a</i> Sweet wines. | F-3 | 128 | <i>a</i> White wines, dry. | F-3 126 |
| <i>b</i> Brandy. | | 131 | <i>b</i> Red wines, dry. | 127 |
| 12. Brun, A., & Co., Oakville, Cal. | | | <i>c</i> Sweet wines. | 128 |
| <i>a</i> White wine, dry. | F-3 | 126 | 23. Dewey & Sons, New York. Red wines, dry, and unfermented grape juice. | L-8 127 |
| <i>b</i> Red wine, dry. | | 127 | 24. DeTurk, Isaac, Santa Rosa, Cal. | |
| <i>c</i> Sweet wine. | | 128 | <i>a</i> White wines, dry. | F-3 126 |
| 13. Burns, Paul O., & Co., San Jose, Cal. | | | <i>b</i> Red wines, dry. | 127 |
| <i>a</i> White wines, dry. | E-1 | 126 | <i>c</i> Sweet wines. | 128 |
| <i>b</i> Red wines, dry. | | 127 | <i>d</i> Brandy. | 131 |
| <i>c</i> Sweet wines. | | 128 | 25. Dunoy & Haines, Sandusky, Ohio. | |
| <i>d</i> Brandy. | | 131 | <i>a</i> Grapes, table. | J-1 122 |
| 14. California State Board of Agriculture. | | | <i>b</i> Grapes, wine. | 123 |
| <i>a</i> The vine by engravings, photos, etc. | B-3 | 119 | <i>c</i> White wines, dry. | 126 |
| <i>b</i> Planting and staking. | | 120 | <i>d</i> Red wines, dry. | 127 |
| <i>c</i> Grapes, table. | | 122 | <i>e</i> Sweet wines. | 128 |
| <i>d</i> Grapes, wine. | | 123 | <i>f</i> Brandy. | 131 |
| <i>e</i> Grape drying and raisins. | | 124 | 26. Eisen, F. T., San Francisco. Sweet wines. | F-3 128 |
| <i>f</i> White wines, dry. | | 126 | 27. Ellis, H. R., San Diego, Cal. Raisins. | M-4 124 |

DEPARTMENT B.—HORTICULTURE.

28. Emerson, J. M., & Sons, Washington-ville, N. Y.
a White wines, dry. L-4 126
b Red wines, dry. 127
c Sweet wines. 128
d Sparkling wines. 129
e Brandy. 131
29. Engles & Kruding, Sandusky, Ohio.
a Grapes. J-1 123
b White wines, dry. 126
c Red wines, dry. 127
d Brandy. 131
30. Escondido Land & Town Co., San Diego, Cal. Raisins. Gal. K-5 124
31. Escondido World's Fair Ass'n, Escondido, Cal. Raisins. H-17 124
32. Estee, M. M., Napa, Cal.
a White wines, dry. G-3 126
b Red wines, dry. 127
33. Ewer & Atkinson, Rutherford, Cal.
a White wines, dry. H-1 126
b Red wines, dry. 127
c Sweet wines. 128
d Brandy. 131
34. Fresno Canning Co., Fresno, Cal. Raisins. Gal. N-74 124
35. Gasten, A. H., Lacon, Ill. Grapes. B-23 122
36. German Fruit Co., Los Angeles Cal.
a White wines, dry. F-4 126
b Red wines, dry. 127
c Sweet wines. 128
- 36a. Germania Wine Co., Hammondsport, N. Y.
a White wines, dry. 126
b Red wines, dry. 127
c Sparkling wines. 129
d Brndy. 131
37. Goodrich, Edward E., Santa Clara, Cal.
a White wines, dry. F-4 126
b Red wines, dry. 127
38. Griffin & Kelly, Riverside, Cal. Raisins. Gal. K-5 124
39. Grossman, A. H., Napa, Cal.
a White wines, dry. F-4 126
b Red wines, dry. 127
40. Gundlach & Co., San Francisco.
a White wines, dry. I-4 126
b Red wines, dry. 127
c Sweet wines. 128
d Cellar paraphernalia and wine coop-
 erage. 330
e Brandy. 131
41. Haesters, F., Wrights, Cal. White wines, dry. F-4 126
42. Hall, J. P. R., El Cajon, Cal. Raisins. A-17 124
43. Hammond, C. M., Upper Lake, Cal.
a White wines, dry. F-4 126
b Red wines, dry. 127
44. Hammondsport Wine Co., Hammondsport, N. Y.
a White wines, dry. L-2 126
b Red wines, dry. 127
c Sweet wines. 128
d Sparkling wines. 129
e Brandy. 131
45. Harvey, Wm., Fresno, Cal. Raisins. Gal. L-79 124
46. Heraszthy, Arpad, San Francisco.
a White wines, dry. I-3 126
b Red wines, dry. 127
- c* Sweet wine. 128
d Sparkling wines, natural process. 129
47. Hommel, C., Sandusky, Ohio.
a Grapes, table. I-1 122
b Grapes, wine. 123
c Sparkling wines. 129
48. Hommel, M., Sandusky, Ohio. Sparkling wines. J-1 129
49. Howes, C. P., Mountain View, Cal.
a White wines, dry. F-4 126
b Red wines, dry. 127
50. Humphrey, A. B., Mayhews, Cal. Grapes, table. B-15 122
51. Husman, Geo., Napa, Cal.
a White wines, dry. F-4 126
b Red wines, dry. 127
c Literature and history. 132
52. Inglenook Vineyard, Rutherford, Cal.
a White wines, dry. F-4 126
b Red wines, dry. 127
c Sweet wines, port. 128
d Brandy. 131
53. Italian Swiss Agr. Colony, San Francisco.
a Vineyards. A-1 121
b Grapes, table. 122
c Grapes, wine. 123
d White wines, dry. 126
e Red wines, dry. 127
f Sparkling wines. 129
g Brandy. 131
54. Jarvis Wine & Brandy Co., San Jose, Cal.
a White wines, dry. C-1 126
b Red wines, dry. 127
c Sweet wines. 128
d Brandy. 131
55. Johnson, C. S. C., Garvanza, Cal.
a White wines, dry. F-4 126
b Red wines, dry. 127
c Sweet wines. 128
56. Jones, Robt., Newcastle, Cal.
a Grapes, table. F-4 122
b Grapes, wine. 123
c White wines, dry. 126
d Red wines, dry. 127
e Sweet wines. 128
f Brandy. 131
57. Keiser, J., Penryn, Cal. Grapes, table. F-4 122
58. Kolb & Denhard, San Francisco, Cal.
a White wines, dry. F-4 126
b Red wines, dry. 127
59. Korbel Bros., San Francisco, Cal.
a White wines, dry. A-1 126
b Red wines, dry. 127
c Sweet wines. 128
d Brandy. 131
60. Lake Erie Fruit & Wine Growers' Ass'n, Sandusky, Ohio.
a Grapes, table. J-1 122
b Grapes, wine. 123
c White wine, dry. 126
d Red wine, dry. 127
e Sweet wine. 128
f Sparkling wines. 129
g Brandy. 131
61. Lay, Clark & Co., Santa Rosa, Cal.
a White wines, dry. F-4 126
b Red wines, dry. 127
c Sweet wines. 128
62. Le France, H., Jan Jose, Cal.
a White wines, dry. F-4 126

UNITED STATES.

<i>b</i> Red wines, dry.	127	79. Noble Bros., Fresno, Cal. Raisins.	
<i>c</i> Sweet wines.	128	Gal. N-6	124
<i>d</i> Sparkling wines.	129	80. Norman, Otto, St. Helena, Cal.	
63. Lenk Wine Co., Toledo, Ohio.		<i>a</i> White wines, dry.	F-4 126
<i>a</i> Grapes, table.	J-1 122	<i>b</i> Red wines, dry.	127
<i>b</i> Grapes, wine.	123	<i>c</i> Sweet wines.	128
<i>c</i> White wine, dry.	126	<i>d</i> Brandy.	131
<i>d</i> Red wine, dry.	127	81. North Carolina, State of.	
<i>e</i> Brandy.	131	<i>a</i> Grapes, table.	A-4 122
64. Lusk, A., & Co., San Francisco.		<i>b</i> Grapes, wine.	123
Raisins.	Gal. N-74 124	<i>c</i> White wines, dry.	126
65. Margherita Vineyard, Fresno, Cal.		<i>d</i> Red wines, dry.	127
<i>a</i> White wines, dry.	F-4 126	<i>e</i> Sweet wines.	128
<i>b</i> Red wines, dry.	127	<i>f</i> Sparkling wines.	131
<i>c</i> Sweet wines.	128	82. Ohio Fruit Land Co., Tadmor, Ohio.	
<i>d</i> Brandy.	131	Grapes, table.	A-55 122
66. Matthews, Joseph, Napa, Cal.		83. Oklahoma Territory.	
<i>a</i> White wines, dry.	F-4 126	<i>a</i> Grapes, table.	122
<i>b</i> Red wines, dry.	127	<i>b</i> Grapes, wine.	123
<i>c</i> Sweet wines.	128	<i>c</i> White wines, dry.	126
67. McFarlan, John R., Dehisa, Cal.		<i>d</i> Red wines, dry.	127
<i>a</i> Grapes, table.	C-14 122	84. Onstott, J. P., Yuba City, Cal.	
<i>b</i> Raisins.	124	<i>a</i> Method of staking and training.	Gal. M-5 120
68. McIver, C. C., Mission, San Jose, Cal.		<i>b</i> Grapes, table.	122
<i>a</i> White wines, dry.	F-4 126	<i>c</i> Grapes, drying.	124
<i>b</i> Red wines, dry.	127	85. Palmtag, Wm., Hollister, Cal.	
<i>c</i> Sweet wines.	128	<i>a</i> White wines, dry.	F-4 126
<i>d</i> Brandy.	131	<i>b</i> Red wines, dry.	127
69. Merrithen, C. H., West Side, Cal.		<i>c</i> Sweet wines.	128
<i>a</i> Red wines, dry.	F-4 127	<i>d</i> Brandies.	131
<i>b</i> Sweet wines.	128	86. Pennsylvania, State of.	
<i>c</i> Brandy.	131	<i>a</i> Grapes, table.	A-3 122
70. Migliavacca, G., Napa, Cal.		<i>b</i> Grapes, wine.	123
<i>a</i> Red wines, dry.	F-4 127	<i>c</i> White wines, dry.	126
<i>b</i> Brandy.	131	<i>d</i> Red wines, dry.	127
71. Monticello Wine Co., Charlottesville, Va.		<i>e</i> Sweet wines.	128
<i>a</i> White wines, dry.	126	<i>f</i> Brandy.	131
<i>b</i> Red wines, dry.	127	87. Pleasant Valley Wine Co., Rheims, N. Y.	
72. Moore, Jacob, Attica, N. Y. Grapes.		L-4	
D-19	122	<i>a</i> Grapes, wine.	123
73. Mt. Pleasant Wine Co., Augusta, Mo.		<i>b</i> White wines, dry.	126
<i>a</i> White wines, dry.	M-6 126	<i>c</i> Red wines, dry.	127
<i>b</i> Red wines, dry.	127	<i>d</i> Sweet wines.	128
74. Munson, T. V., Denison, Texas.		<i>e</i> Sparkling wines.	129
<i>a</i> The vine and its varieties.	A-9 119	<i>f</i> Brandy.	131
<i>b</i> Grapes, table.	122	88. Pyle, D. M., Bakersfield, Cal.	
<i>c</i> Grapes, wine.	123	<i>a</i> Growing grape vine.	Gal. L-79 119
<i>d</i> Literature, history and statistics.	132	<i>b</i> Raisins.	124
Dry and live plants, fruits and vines.		89. Repsold, A., San Francisco.	
75. Napa Valley Wine Co., Napa, Cal.		<i>a</i> White wines, dry.	F-4 126
<i>a</i> White wines, dry.	J-4 126	<i>b</i> Red wines, dry.	127
<i>b</i> Red wines, dry.	127	<i>c</i> Brandy.	131
<i>c</i> Sweet wines.	128	90. Rice, A. F., Griswoldville, Ga. Seed-	
<i>d</i> Brandy.	131	ling grapes.	B-55 122
76. New Jersey, State of.		91. Rose, L. J., Co., Ltd., San Gabriel, Cal.	
<i>a</i> Grapes, table.	M-8 122	<i>a</i> Sweet wines, dry.	F-4 128
<i>b</i> Grapes, wine.	123	<i>b</i> Brandies.	131
<i>c</i> White wines, dry.	126	92. Rossi, C. P., San Francisco, Cal. Ver-	
<i>d</i> Red wines, dry.	127	mouth.	A-1 131
<i>e</i> Sweet wines.	128	93. Sanders & Co., San Francisco. Con-	
<i>f</i> Brandy.	131	tinuous still.	B-1 131
77. New Mexico, State of.		94. Schleischer, Robert, Lewiston, Idaho.	
<i>a</i> Grapes, table.	A-3 122	Grapes.	B-70 122
<i>b</i> Grapes, wine.	123	95. Schram, Jacob, St. Helena, Cal.	
<i>c</i> White wines, dry.	126	<i>a</i> White wines, dry.	H-1 126
<i>d</i> Red wines, dry.	127	<i>b</i> Red wines, dry.	127
<i>e</i> Sweet wines.	128	96. Smith, Julius P., Livermore, Cal.	
<i>f</i> Brandy.	131	<i>a</i> White wines, dry.	F-4 126
78. New York, State of. Grapevine trellis.		<i>b</i> Red wines, dry.	127
Nursery.	120	<i>c</i> Sweet wines.	128
		<i>d</i> Brandy.	131

DEPARTMENT B.—HORTICULTURE.

97. South Shore Wine Co., North East, Pa. A-3
a White wines, dry. 126
b Red wines, dry. 127
c Sparkling wines. 129
98. Speer Wine Co., Passaic, N. J. M-7
a White wines, dry. 126
b Red wines, dry. 127
c Brandy. 131
99. Stanford, Leland, Vina, Cal. G-4
a White wines, dry. 126
b Red wines, dry. 127
c Sweet wines. 128
d Brandy. 131
100. Steinke & Bruning, Los Angeles, Cal. F-4
 Sweet wines. 128
101. Stern, Chas., & Son, Los Angeles, Cal. F-1
a White wines, dry. 126
b Red wines, dry. 127
c Sweet wines. 128
d Brandy. 131
102. Stewart, J. A., Santa Cruz, Cal. F-4
a White wines, dry. 126
b Red wines, dry. 127
103. St. Hubert Vineyard, Fresno, Cal. F-4
a White wines, dry. 126
b Red wines, dry. 127
c Sweet wines. 128
104. Stone Hill Wine Co., Herman, Mo. K-7
a White wines, dry. 126
b Red wines, dry. 127
105. Tiburcio, Parrott, St. Helena, Cal. H-1
a White wines, dry. 126
b Red wines, dry. 127
c Brandy. 131
106. Urbana Wine Co., Hammondsport, N. Y. L-3
a White wines, dry. 126
b Red wines, dry. 127
c Sweet wines. 128
d Sparkling wines. 129
e Brandy. 131
107. Walden & Co., Geyserville, Cal. F-1
a White wines, dry. 126
b Red wines, dry. 127
c Sweet wines. 128
d Brandy. 131
108. Wagoner, H. B., Livermore, Cal. F-4
a White wines, dry. 126
b Red wines, dry. 127
109. Wehner, Wm., Evergreen, Cal. F-4
a White wines, dry. 126
b Red wines, dry. 127
110. Welch Grape Juice Co., Vineland, N. J. L-8
 Unfermented grape juice. 127
111. West, Geo., & Son, Stockton, Cal. F-4
a White wines, dry. 126
b Red wines, dry. 127
c Sweet wines. 128
d Brandy. 131
112. Wetmore, Chas. A., Livermore, Cal. C-4
a White wines, dry. 126
b Red wines, dry. 127
c Sweet wines. 128
d Brandy. 131
113. Wetmore, C. J., Livermore, Cal. D-3
a White wines, dry. 126
b Red wines, dry. 127
c Sweet wines. 128
d Brandy. 131
114. Woodard, E. M., Kirtland, Ohio. A-57
 Table grapes. 122

115. Woodbury, T. H., Salt Lake City, Utah. B-53
 Grapes. 122
116. Xander, Christian, Washington, D. C. L-2
a Red wines, dry. 127
b Sweet wines. 128
117. Ziergibl, Louis, St. Helena, Cal. -1
a White wines, dry. 126
b Red wines, dry. 127
c Sweet wines. 128

GROUP 21.

Pomology, Manufactured Products.
Methods and Appliances.

118. Adams, D. K., Chula Vista, Cal. C-15
 Lemons. 134
119. Albaugh Georgia Fruit Co., Tadmor, O. B-55
 Peaches and pears. 133
120. Arizona, Territory of Fruits. B-54
 133
121. Ball & Cheyne Co., New York. Gal. G-71
 Prune wine. 143
122. Bass, D. C., Stevensville, Mont. C-52
 Fruits in glass. 140
123. Backwith, C. E., Missoula, Mont. C-52
 Fruits in glass. 140
124. Berrien County, Mich. Fruits. D-19
 133
125. Bishop & Co., Los Angeles, Cal. T-80
a Bottled fruits. 140
b Crystallized fruits. 142
126. Boomer & Boschert Press Co., Chicago. O-68
a Cider presses. 144
b Apple grater. 144
127. Brunswick, M., & Co., Rochester, N. Y. Gal. X-46
 Fruit plates and literature. 146
128. Butters M'f'g Co., Denver, Col. Gal. B-74
 Preserves and fruit butters. 141
129. California Fruit Evaporating & M'f'g Co., Los Angeles, Cal. R-71
a Evaporated fruits. 139
b Evaporator. 144
130. California Mutual Lemon Co., San Diego, Cal. T-79
a Apples and pears. 133
b Lemons and oranges. 134
c Guavas and pineapples. 135
d Walnuts. 137
e Appliances. 145
131. California, State of. B-12
a Pomaceous fruits. 133
b Citrus fruits. 134
c Nuts. 137
d Canned fruits. 140
132. Chippendale, Wm., Duarte, Cal. D-14
 Citrus fruits. 134
133. Church Bros., Genesee, Idaho. B-70
 Fruits. 133
134. Cluff, Samuel S., Provo, Utah. B-53
 Fruits. 133
135. Connecticut, State of. D-39
 Fruits. 133
136. Cook, Orrin C., Milford, Mass. Gal. L-80
 Hickory nuts. 137
137. Cochems, N., Del Sur, Cal. Gal. L-79
 shell almonds. 137
138. Cogswell, Dr. Thos., San Diego, Cal. T-72
 Fruit baskets. 145
139. Colorado, State of. B-63
a Fruits. 133
b Canned fruits. Gal. A-79
 140
140. Colorado, Women of. Gal. L-74
a Preserves. 140
b Jellies. 141

UNITED STATES.

141. Cooper, Ellwood, Santa Barbara, Cal.
a Quinces. C-10 133
b Lemons and limes. 134
c Olives and persimmons. 135
d Nuts. 137
e Olive oil. 143
142. Cooper, F. B., Lewiston, Idaho.
 Fruits. B-70 133
143. Crogan Bros., Hot Springs, Utah.
 Fruits. B-53 133
144. Delsol, Louis, Lewiston, Idaho.
 Grapes. B-70 122
145. Dietz, Geo. A., Olden, Mo.
a Evaporated fruits. R-69 139
b Evaporator. 145
146. Dunham, Edward, La Canada, Cal.
 Citrus fruits. D-15 134
147. Ellwanger & Barry, Rochester, N.Y.
 Fruits. B-18 133
148. England, A. G., Missoula, Mont.
 Fruits in glass. C-52 140
149. Ensey, Mrs., Denver, Col.
a Fruit in glass. Gal. L-74 140
b Jellies. 141
150. Escondido World's Fair Society, Escondido, Cal.
a Dried fruits. H-71 139
b Fruits in glass. 140
151. Fallbrook Horticultural Society, Fallbrook, Cal. Fruits in glass. E-11 140
152. Ferry, Wm. H., Lakeside, Cal.
a Figs. G-72 135
b Nuts. 137
c Dried figs. 139
d Preserved figs. 140
e Jam. 141
f Glaced figs. 142
153. Flickinger Co., The J. H., San Jose, Cal.
a Dried fruits. Gal. G-72 139
b Fruits in glass. 140
c Apples, peaches, etc. 133
154. Florida, State of.
a Pomaceous fruits. 133
b Citrus fruits. E-70 134
c Canned fruits. Gal. A-78 140
155. Ford, Geo. W., Santa Ana, Cal.
 Walnuts. Gal. J-80 137
156. Foster, Wm., Lincoln, Cal. Dried figs. B-12 135
157. Fresno Canning Co., Fresno, Cal.
a Dried fruits. Gal. N-74 139
b Canned fruits. 140
158. Garden and Forest Publishing Co., New York. Literature. Gal. U-32 146
159. Gasten, A. H., Lacon, Ill.
a Apples, pears, etc. B-23 133
b Berries 136
160. Genesee Fruit Co., New York.
a Evaporated apples. N-70 139
b Cider. 143
161. Gillespie, Mrs. D. L., Los Angeles.
 Jellies. Gal. D-71 141
162. Godfrey, C. H., Benton Harbor, Mich.
 Canned fruits. Gal. L-73 140
163. Hall, Geo. S., Monrovia, Cal. Berry crate. T-72 145
164. Hall, J. P. R., El Cajon, Cal.
a Figs. A-17 135
b Dried fruits. 139
165. Harlan, W. B., Como, Mont. Fruits in glass jars. C-52 140
166. Harvey, Wm., Fresno, Cal. Dried figs. Gal. L-79 139
167. Hatch-Armstrong Fruit and Nut Co., Acampo, Cal.
a Nuts. Gal. J-71 137
b Fruits in glass. C-12 140
168. Hawks A. D., Sierra Madre, Cal.
 Dried fruits. Gal. L-72 139
169. Hein, Andrew, Port Washington, Wis. Rhubarb wine. R-80 143
170. Henderson, Peter, & Co., New York. Literature. J-78 146
171. Holt, F., Lewiston, Idaho. Fruits. B-70 133
172. Holt, L. M., Los Angeles, Cal.
 Oranges and lemons. E-12 134
173. Hopkins, Mrs. M., Newcastle, Cal.
 Jellies. R-78 141
174. Howard, Chas. A., Fort Covington, N. Y. Cider machinery. P-68 144
175. Hubbard, I. G., Nokomis, Ill.
a Peaches. Gal. L-79 133
b Wax models of peaches. 138
c Preserved peaches. 140
d Orchard packing bench. 145
176. Husted, J. D., Vineyard, Ga.
a Peaches. B-55 133
b Peaches in glass. 140
177. Hydraulic Press M'f'g Co., Mt. Gilead, Cider presses and apple graters. 144
178. Idaho, State of.
a Pomaceous fruits. B-70 133
b Canned fruits. Gal. L-80 140
c Dried fruits. 139
179. Illinois Horticultural Society.
a Fruits. B-26 133
b Canned fruits. Gal. A-74 140
180. Indiana, State of. Fruits. A-20 133
181. Iowa, State of.
a Pomaceous fruits. C-28 133
b Canned fruits. B-79 140
182. James, Mrs. Melvina, Brooklyn. Canned fruits. Gal. H-73 140
183. Jarchow, J., San Gabriel, Cal. Citrus fruits. C-14 134
184. Johnson, F. C., Kishwaukee, Ill. Cider and vinegar. M-70 143
185. Joplin, Mrs. J. C., Tustin, Cal. Fruits in glass. C-12 140
186. Judd, L., St. George, Utah. Nuts. F-72 137
187. Kansas, State of. Fruits. E-57 133
188. Keen, A., & Son, National City, Cal. Lemons. D-11 134
189. Kentucky, State of. Fruits. C-57 133
190. Kimball, Frank A., National City, Cal.
a Olives. E-10 135
b Dried olives. 139
c Pickled olives. 140
191. Kimball, W. C., National City, Cal.
a Citrus fruits. D-10 134
b Olives. 135
c Fruits in glass. 140
192. King, Jos., Salt Lake City, Utah. Berries. B-53 136
193. Laird, Mrs., Denver, Col.
a Fruit in glass. Gal. L-74 140
b Jellies. 141
194. Lompoc Exhibit, Santa Barbara, Cal. Apples, pears, etc. B-14 133
195. Loudon, F. W., Janesville, Wis. Strawberries. C-19 136

DEPARTMENT B.—HORTICULTURE.

196. Los Nietos Walnut Growers' Ass'n,
Rivera, Cal. English walnuts.
Gal. J-77 137
197. Louisiana, State of.
a Fruits. B-55 133
b Canned fruits. E-72 140
198. Lusk, A. & Co., San Francisco.
a Dried fruits. Gal. N-74 139
b Canned fruits. 140
199. Maine, State of. Fruits. E-33 133
200. Massachusetts, State of. Fruits.
E-37 133
201. Mast, P. P., & Co., Springfield, Ohio.
Cider mills. M-69 144
202. Mattocks, Chas. P., Portland, Me.
Canned apples. Gal. B-77 140
203. Maul, Chas. A., Bakersfield, Cal.
Fruits in glass. E-11 140
204. McClure, Mrs. K., Denver, Col.
a Fruit in glass. Gal. L-74 140
b Jellies. 141
205. McDougall, C. A., San Diego, Cal.
Apples, pears, etc. D-12 133
206. McKoon, Hosmer P., Santee, Cal.
a Pomaceous fruits. E-14 133
b Canned fruits. 140
207. McKean, Ruth, Salt Lake City,
Utah.
a Fruits. B-53 133
b Small fruits. 136
208. Michigan Cider Co., Benton Harbor
Mich.
a Cider. O-71 143
b Cider press. 144
209. Michigan State Horticultural Society.
a Fruits. B-20 133
b Canned fruits. Gal. B-75 140
210. Minnesota, State of. Fruits.
E-24 133
211. Missouri, State of.
a Pomaceous fruits. C-60 133
b Berries. 136
c Canned fruits. B-76 140
212. Montana, State of. Fruits. C-52 133
213. Moore, D. M., Ogden, Utah.
a Fruits. B-53 133
b Small fruits. 136
214. Moore, Jacob, Attica, N. Y.
a Pears. D-19 133
b Currants and gooseberries. 136
215. Morris, J. B., Lewiston, Idaho.
Fruits. B-70 133
216. Mudge Process Co., Baltimore, Md.
Process of preserving fruits. C-73 145
217. Mudge Process M'fg Co., Jackson-
ville, Fla. Apparatus for preserving
fruits. C-73 145
218. National Fruit Growing Co., San
Francisco.
a Fruits. E-13 133
b Fruits in glass. 140
c Literature. 146
219. Nebraska State Horticultural So-
ciety.
a Fruits. E-53 133
b Canned fruits. Gal. B-79 140
220. New Jersey State Board of Agricul-
ture.
a Fruits. A-17 133
b Canned fruits. Gal. A-77 140
221. New Mexico, Territory of.
a Pomaceous fruits. B-52 133
b Canned fruits. S-72 140
222. New York, State of.
a Pomaceous fruits. B-17 133
b Small fruits. 136
c Canned fruits. H&L-73-76 140
223. Nicholson Co., Rochester, N. Y.
a Fruit plates. Gal. E-43 146
b Preserved fruits. 140
224. North Carolina, State of.
a Fruits. A-52 133
b Canned fruits. Gal. A-80 140
225. Ohio Fruit Land Co., Tadmor, Ohio.
Peaches and pears. A-55 133
226. Ohio State Horticultural Society.
a Fruits. A-57 133
b Canned fruits. Gal. B-75 140
227. Oklahoma, Territory of.
a Pomaceous fruits. B-54 133
b Preserved and canned fruits.
S-77 140
228. Oregon State Board of Horticulture.
Fruits. C-63 133
229. Packer, Danl., & Co., New Dorp
Staten Island, N. Y. Preserves.
Gal. B-73 140
230. Parrott, Tiburcio, St. Helena, Cal.
Olives and olive oil. H-1 135
231. Peninsula Horticultural Society, Sea-
ford, Del. Fruits. D-54 133
232. Pennsylvania, State of.
a Fruits. A-12 133
b Canned fruits. Gal. B-80 140
233. Perris World's Fair Society, Perris,
Cal.
a Dried fruits. Gal. M-80 139
b Fruits in glass. E-15 140
234. Phelps, Mrs. A. C., Denver, Col.
a Fruit in glass. Gal. L-74 140
b Jellies. 141
235. Pomona Board of Trade, Pomona,
Cal.
a Deciduous fruits. B-12 133
b Citrus fruits. 134
c Dried fruits. Gal. L-79 139
d Canned fruits. 140
236. Pope, Chas. S., Manchester, Me.
Fruit band cushion. A-77 145
237. Porter, L. W., Lewiston, Idaho.
Fruits. B-70 133
238. Potter, Mrs. Stanley, South Haven,
Mich. Wax models of fruits and vegeta-
bles. C-19 138
239. Powell, Jos. W., Lewiston, Idaho.
Fruits. B-70 133
240. Reis, David, Milford, Del. Canned
peaches. Gal. A-77 140
241. Risien, E. E., San Saba, Texas.
a Pecans. Gal. G-71 137
b Photographs. 146
242. Ritter, Philip J., Conserve Co., Phil-
adelphia.
a Fruits in glass. H-78 140
b Jellies, jams and marmalades. 141
c Glaced fruits. 142
243. Rockwell, Marion F., Jersey City,
N. J. Fruits preserved in cold water.
Gal. A-72 145
244. San Jose Fruit Packing Co., San
Jose, Cal.
a Dried fruits. Gal. D-73 139
b Canned fruits. 140
c Jellies and jams. 141

UNITED STATES.

245. San Marcos Land Co., San Diego, Cal.
a Pomaceous fruits. D-12 133
b Citrus fruits 134
c Tropical fruits. 135
d Small fruits. 136
e Nuts. 137
246. Saratoga Packing Co., Saratoga, Cal.
a Prunes. Gal. E-71 139
b Photographs. 146
247. Schabel, Mrs. Q., Newcastle, Cal. Jellies. R-78 141
248. Scott, John, Duarte, Cal. Citrus fruits. D-13 134
249. Sexton, Joseph, Santa Barbara, Cal. Walnuts, etc. Gal. G-77 137
250. Sherman Bros., Newcastle, Cal. Dried figs. R-78 139
251. Silva, C. M., Lincoln, Cal. Oranges, limes and lemons. B-12 134
252. Smith Pneumatic Transfer & Storage Co., Chicago. Method of preserving fruits. U-74 145
253. Smith & Painter, Wilmington, Del. Fruit juices. H-72 143
254. South Dakota, State of. Fruits. B-62 133
255. Southern California World's Fair Ass'n, Los Angeles, Cal. Fruits. B-77 134
256. Stanley, E. J., Riverside, Mont. Fruits in glass. C-15 140
257. Stevens Fruit Case Co., San Francisco, Cal. Fruit carrier. S-80 145
258. Stevens, Geo. W., San Francisco, Cal. Boxes for shipping fruit. S-80 145
259. Stevens, Kenton, Santa Barbara, Cal. Orange wine. 143
260. Stecher Lithographic Co., Rochester, N. Y. Lithographed fruit plates. Gal. E-42 146
261. Stewart Pecan Co., Ocean Springs, Miss.
a Pecans. Gal. B-72 137
b Photographs. 146
262. Stutzman, D., Ligonier, Ind.
a Evaporated fruits. R-68 139
b Evaporator. 144
263. Swindon, F. A., Brownwood, Texas. Pecans. Gal. B-78 137
264. Texas Pecan & Seed Co., Fort Worth, Texas. Pecans. Gal. A-72 137
265. Threkel, G. R., Newcastle, Cal. Pomaceous fruits. B-12 133
266. Thompson, A. C., Duarte, Cal. Oranges. B-14 134
267. Tripp, S. D., Lynn, Mass. Fruit wrapping machine. P-73 145
268. Utah, Territory of.
a Fruits. B-53 133
b Canned fruits. F-72 140
269. Virginia, State of. Fruits. A-66 133
270. Warner, C. W., Moab, Utah. Fruits. B-53 133
271. Watson, Ernest, Duarte, Cal. Citrus fruits. D-14 134
272. Westwood, J. M., Springville, Utah. Fruits. B-53 133
273. Wetmore, Chas. A., Livermore, Cal. Olives and olive oil. C-4 135
274. Wilson, Joseph Avery, Chester Depot, Vt. Jellies, jams, etc. Gal. A-73 141
275. Wilson, Joseph, Duarte, Cal. Crystallized fruits. C-4 142

277. Wisconsin Horticultural Society.
a Fruits. E-19 133
b Canned fruits. Gal. B-76 140
278. Wright, Albion, Fort Covington, N. Y. Cider machinery. P-69 144
276. Young, B. M., Morgan City, La.
a Pecans. Gal. A-72 137
b Photographs. 146

GROUP 22.

Floriculture.

279. Achelis, Geo., West Chester, Pa. Evergreens and shrubs. 157
280. Allegheny City Park, Allegheny, Pa. Ferns, etc. Dome 160
281. Allen, Mrs. E. W., Portland, Ore. Herbaria. Gal. F-34 167
282. Arizona, Territory of.
a Plants. East Curtain 155
b Plants. Island 171
283. Asmus, Ernst, West Hoboken, N. J. Roses. 147
284. Baker Bros., Fort Worth, Texas. Flowers and plants. 153
285. Baldwin, Mrs., Philadelphia. Palms, etc. Dome 159
286. Bather, J. R., Clinton, Iowa.
a Ferns. 160
b Cacti. 162
287. Bechtels, Theo., Staunton, Ill. Double crabapple. Lawn 168
288. Benhan, Frederic W., Chicago.
a Flowering annual plants. Lawn 155
b Climbing annual plants. 156
c Misc. annuals, phlox, asters, etc. 158
289. Bickford, W. M., Missoula, Mont. Native wild flowers. Gal. F-48 164
290. Bloomington Phoenix Nursery, Bloomington, Ill. Trees and shrubs. 161
291. Botanic Gardens, Cambridge, Mass. Tropical palms. Dome 159
292. Botanical Gardens, Washington, D. C. Rare exotic plants. 166
293. Brunswick, M., & Co., Rochester, N. Y. Flower plates and literature. Gal. X-42 170
294. Burpee, W. Atlee, Philadelphia. Pansies. 155
295. California Nursery Co., Niles, Cal. Roses. 147
296. Childs, G. W., Bryn Mawr, Pa. Palms and plants. Dome 159
297. Childs, J. L., Floral Park, N. Y. Roses, etc. 147
298. Colorado, State of. Herbaria. Gal. V-49 171
299. Craig, Robert, Philadelphia. Roses. 147
300. Cushman, E. H., Euclid, Ohio. Gladiolus. Gal. F-37 167
301. Daacke, H. A., New York. Pansies. 155
302. Dayton Star Nursery, Dayton, Ohio. Flowers. 153
303. Detroit Flower Pot Manufactory, Detroit, Mich. Flower pots and vases. Gal. V-32 169
304. Dingee & Conard Co., West Grove, Pa. Roses. 147
305. Douglas Park, Chicago. Plants. 155
306. Douglas, R., & Sons, Waukegan, Ill. Flowers and plants. 155

DEPARTMENT B.—HORTICULTURE.

307. Dreer, Henry A., Philadelphia. Bed-
ding plants, annuals. * 155
308. Drexel, A. J., Lansdown, Pa. Palms,
etc. Dome 159
309. Eisle, Christian, Philadelphia.
a Carnations. Island 178
b Begonias and cannas. 152
310. Elliott, B. A., Pittsburg, Pa. Plants.
155
311. Elliott, J. W., Pittsburg, Pa. Bloom-
ing shrubs. Lawn 157
312. Fairmount Park, Philadelphia. Ferns,
etc. Dome 160
313. Farquhar, R. & J., Co., Boston. Bed-
ding plants. † 155
314. Fuchs, Albert, Chicago. Tropical
plants. 166
315. Gardiner, John, & Co., Philadelphia.
Flowers, etc. † 155
316. Gilbert & Bennett M'f'g Co., Chicago.
Flower stands. Gal. G-47 169
317. Girard College, Philadelphia. Ferns,
etc. Dome 160
318. Goode & Co., Chicago. Greenhouse
plants. 155
319. Gordon, J. A., Cleveland, Ohio.
a Palms. 159
b Tropical plants. 166
320. Henderson, Peter, & Co., New York.
a Plants. Greenhouse and Lawn 168
b Plants. 171
321. Hill & Co., E. G., Richmond, Ind.
a Roses. Island 147
b Geraniums. 154
c Begonias. 161
322. Holman, W. C., Downey, Cal. Pam-
pas plumes. Gal. E-32 167
323. Humboldt Park, Chicago. Plants.
155
324. Hunnewell, H. H., Wellesley, Mass.
Palms, etc. 159
325. Idaho, State of. Herbaria.
Gal. X-47 167
326. Indiana, State of. Plants. 168
327. Iowa, State of. Plants.
East Curtain 171
328. Jeffreys & Son, Bellmore, N. Y.
Coleus. 161
329. Kaufmann, Ernest, Philadelphia.
a Florists' designs. Gal. L-49 167
b Flower baskets. 169
330. Kelsey, Fred W., New York. Rho-
dodendrons. Island and Lawn 150
331. Kentucky, State of.
a Flowers. East Curtain 171
b Herbaria. Gal. U-34 167
c Plants. Lawn 168
332. Krick, W. C., Brooklyn, N. Y.
Florists' letters and designs.
Gal. V-32 167
333. Landreth, D., & Sons, Philadelphia.
Pansies. Lawn 155
334. Lincoln Park, Chicago. Plants. 158
335. Loery, Bernhard, New York. Aqua-
rium and flower stand. Gal. X-36 169
336. Long, Daniel B., Buffalo, N. Y.
Florist's photographs. Gal. X-34 170
337. Louisiana, State of. Plants.
East Curtain 171
338. Marsh, Miss Jeanette B., Baltimore.
Balconette windows. Gal. A-40 169
339. Massachusetts, State of.
a Flowers. East Curtain 168
b Plants. Lawn 171
340. Miller, George, Lake View, Chicago.
Hothouse plants. 155
341. Missouri, State of.
a Flowers. East Curtain 155
b Plants. Lawn 171
c Herbaria. Gal. H-47 167
342. Montana, State of. Herbaria.
Gal. W-32 167
343. Moon, Saml. C., Mcrrisville, Pa.
Evergreens. 160
344. Nanz & Neuner, Louisville, Ky.
Roses, etc. W-1 147
345. Nebraska State Horticultural Soci-
ety.
a Plants. East Curtain 168
b Plants. Lawn 171
346. New Mexico, Territory of.
a Flowers. East Curtain 155
b Plants. Island and Lawn 171
347. New York, State of.
a Herbaria. Gal. W-40 167
b Plants. Island and Lawn 168
c Flowers. East Curtain 155
348. Nichols, Anna B., Laredo, Texas.
a Palms. 159
b Cactaceæ. 162
349. Nicholson Co., Rochester, N. Y.
Flower plates. Gal. E-43 170
350. North Carolina, State of.
a Plants. East Curtain 168
b Herbaria. Lawn 167
c Flowers. Gal. U-48 171
351. Oceanside, W. F. Society, Oceanside,
Cal. Calla lily plants. Lawn 153
352. Ohio State Horticultural Society.
a Plants. Lawn 155
b Plants and flowers. East Curtain 171
353. Oklahoma, Territory of.
a Flowers. East Curtain 155
b Plants. Lawn 171
354. Orange Judd Farmer Co., Chicago.
Noxious weeds. Nursery 171
355. Palmer, Nettie A., Chicago. Her-
baria. Gal. T-34 167
356. Parsons' Sons Co., Flushing, N. Y.
Rhododendrons and azaleas.
Nursery 150
357. Peck, Chas. H., State Museum, Al-
bany, N. Y. Dried fungi.
Gal. V-33 164
358. Pennsylvania, State of.
a Flowers. East Curtain 155
b Plants. Lawn 171
359. Pitcher & Manda, Short Hill, N. J.
Plants, etc. W-1 171
360. Rea Bros., Norwood, Mass. Plants.
158
361. Reeves, Mrs. Mark E., Richmond,
Ind. Plants and flowers. Dome 155
362. Rupp, Henry S., & Sons, Shoremans-
town, Pa. Bedding plants. 155
363. Russell, S. J., Jersey City, N. J.
White doves. Gal. T-32 171
364. Samuels, W. M., & Co., Clinton, Ky.
Plants and shrubs. 153
365. Seavey, O. D., St. Augustine, Fla.
Yuccas. 162
366. Shuetz, Anton, Wausau, Wis. Gera-
niums. East Curtain 154
367. Stebe, Emil, Philadelphia, Pa. Jar-
dinieres, baskets, etc. Gal. X-32 169

UNITED STATES.

368. Stecher Lithographic Co., Rochester, N. Y. Lithographed flower plates. Gal. E-42 170
369. Stewart, W. R., & Co., Ocean Springs, Miss. Pecan trees. Lawn 168
370. Strong, W. C., & Co., Waban, Mass. Flowers. 153
371. Thorburn, J. M., & Co., New York. Plants and flowers. * 155
372. Utah, Territory of. Plants. Lawn 171
373. Vaughan, J., Chicago. *a* Plants. Lawn 171
b Receptacles for plants, etc. I-75 169
374. Vick, Jas., & Sons, Rochester, N. Y. Pansies. 155
375. Virginia, State of. Plants, Antique. East Curtain 171
376. Walker, Mrs. S. B., Castle Rock, Col. Pressed and mounted flowers. Gal. S-48 167
377. Washington Park, Chicago. Bedding plants. 155
378. Wheeler, Mrs. Chas., Bryn Mawr, Pa. Palms, etc. Dome 159
379. Whilden Pottery Co., Philadelphia. *a* Flower pots. 169
b Florists' supplies. Gal. R-32 169
380. Willmore, W. W., Denver, Col. Dahlias. Lawn 152
381. Wilmore, W. W., Denver, Colo. Dahlias. Lawn 152
382. Wisconsin Horticultural Society. *a* Herbaria. 167
b Plants. Gal. W-46 168
383. Woman's W. F. Society, San Diego, Cal. Cactaceæ. Lawn 162
384. Woodruff, D. B., Macon, Ga. Plants. 155
385. Women of Colorado. Herbaria. Gal. X-49 167

GROUP 23.

Culinary Vegetables.

386. Albaugh Georgia Fruit Co., Tadmor, Ohio. Melons. B-55 172
387. Butters M'fg Co., Denver, Col. Pickles, sauces, catsup, etc. Gal. B-74 177
388. California Fruit Evaporating & M'fg Co., Los Angeles, Cal. Evaporated vegetables. R-69 176
389. Carlisle, J. E., Logan, Utah. Vegetables. F-72 173
390. Colorado, State of. Vegetables. S-79 177
391. Dietz, Geo. A., Olden, Mo. Evaporated vegetables. R-69 163
392. Ensey, Mrs., Denver, Col. Canned tomatoes. Gal. L-74 176
393. Godfrey, C. H., Benton Harbor, Mich. Canned vegetables. Gal. L-73 176
394. Idaho, State of. Vegetables. R-72 173
395. Illinois Horticultural Society. Vegetables. O-80 173
396. Indiana, State of. Vegetables. S-80 173
397. Iowa, State of. Vegetables. U-78 173
398. Kansas, State of. Vegetables. S-78 173
399. Kentucky, State of. Vegetables. R-77 173
400. Louisiana, State of. Vegetables. E-72 173
401. Lusk, A., & Co., San Francisco. Canned vegetables. Gal. N-74 176
402. Massachusetts, State of. Vegetables. Q-78 173

403. Mattocks, Chas. P., Portland, Me. Canned vegetables. Gal. B-77 176
404. Michigan, State of. Vegetables. Q-80 173
405. Minnesota, State of. Vegetables. P-78 173
406. Missouri, State of. Vegetables. N-80 173
407. Nebraska Horticultural Society. Vegetables. R-77 173
408. New Jersey, State of. Vegetables. A-78 173
409. New Mexico, Territory of. Vegetables. S-72 173
410. New York, State of. Vegetables. P-77 173
411. North Carolina, State of. Vegetables. U-77 173
412. Ohio Fruit Land Co., Tadmor, Ohio. Melons. A-55 172
413. Ohio Horticultural Society. Vegetables. T-80 173
414. Peck, Chas. A., Albany, N. Y. Edible fungi. Gal. V-33 175
415. Reis, David, Milford, Del. Canned tomatoes. Gal. A-77 176
416. Rockwell, Marion F., Jersey City, N. J. Vegetables preserved in cold water. Gal. A-72 178
417. Smith Pneumatic Transfer & Storage Co., Chicago. Safe for preserving vegetables. U-74 178
418. Stutzman, D., Ligonier, Ind. Evaporated vegetables. R-68 176
419. Twelves, C., Provo, Utah. Vegetables. F-72 173
420. Utah, Territory of. Vegetables. F-72 173
421. Wisconsin Horticultural Society. Vegetables. R-80 173

GROUP 24.

Seeds, Seed Raising, Testing and Distribution.

422. Croft, Thos., Toledo, Ohio. Vegetable seeds. B-75 179
423. Dreer, Henry A., Philadelphia. General seed exhibit. G-75 18
424. Heckerman, David, Neopolis, Ohio. Vegetable seeds. B-75 179
425. Henderson, Peter, & Co., New York. Seeds. J-78 180
426. Johnston, Fred., Toledo, Ohio. Vegetable seeds. B-75 179
427. Michigan Seed Co., South Haven. General seed exhibit. 180
428. Pitcher & Manda, Short Hills, N. J. Seeds. A-77 180
429. Salisbury, Joshua, Wellsville, Utah. Vegetable seeds. F-72 179
430. Smith Pneumatic Transfer & Storage Co., Chicago. Method of preserving seeds. U-74 181
431. Vaughn, J. C., Chicago. Seeds. J-75 180

GROUP 25.

Arboriculture.

432. Arizona, Territory of. Ornamental trees and shrubs. Island 185
433. Bechtel's, E. A., Sons, Staunton, Ill. *Pyrus augustifolia*. Island 185

DEPARTMENT B.—HORTICULTURE.

434. Ellwanger & Barry, Rochester, N. Y.
Ornamental trees and shrubs. Nursery 185
435. Florida, State of. Sub-tropical fruit trees. Nursery 186
436. Gasten, A. H., Lacon, Ill. Catalpa, etc. Nursery 185
437. Hatch-Armstrong Fruit & Nut Co., Acampo, Cal. Almond trees in bearing. Nursery 186
438. Hill, David, Dundee, Ill. Evergreens. Nursery 185
439. Huntsville Wholesale Nurseries, Huntsville, Ala. Nursery stock. H-72 187
440. Indiana, State of. Ornamental trees and shrubs. Nursery 185
441. Joosten, C. H., New York. Insecticide magazine bellows. B-75 186
442. Kentucky, State of. Ornamental trees and shrubs. Nursery 185
443. Michigan, State of. Fruit trees. Nursery 186
444. Missouri, State of. Ornamental trees and shrubs. Nursery 185
445. Nebraska State Horticultural Society. Ornamental trees and shrubs. Nursery 185
446. New Mexico, Territory of. Ornamental trees and shrubs. Nursery 185
447. North Carolina, State of. Ornamental trees and shrubs. Nursery 185
448. Ohio State Horticultural Society. Ornamental trees and shrubs. Nursery 185
449. Parsons & Sons Co., Limited, Flushing, N. Y. Hardy trees, etc. Nursery 185
450. Peterson, P. S., Chicago. Trees. Lawn 185
451. Pinny, George, Evergreen, Wis. Coniferae. Nursery 185
452. Ricker, E. H., Co., Elgin, Ill.
a Evergreens, seeding, etc. Nursery 185
b Nurseries. 187
453. Southern California World's Fair Ass'n, Los Angeles, Cal.
a Ornamental trees. Nursery 185
b Nursery trees. Nursery 187
c Bearing orange grove. Open court 186
454. Stewart, W. R., Ocean Springs, Miss. Nut trees. Nursery 186
455. Stott Garden Implement Co., New York. Insecticides and distributors. F-77 186
456. Stuart Pecan Co., Ocean Springs, Miss. Pecan trees. Nursery 186
457. Wilmeroth, C. W., Chicago. Ever-bearing raspberry. Nursery 186
458. Wisconsin Horticultural Society. Ornamental trees and shrubs. Nursery 185
459. Zimmermann, Wm., Chicago. Tree and plant setting machine. S-80 186
463. Capital City Fence Co., Indianapolis, Ind. Fences. E-74 191
464. Capital City Fence Co., Indianapolis, Ind. Fences. E-74 191
465. Caldwell Lawn Mower Co., Newburg, N. Y. Lawn mowers. H-77 192
466. Carmody & Moniger, Evansville, Ind.
a Model greenhouse. Lawn 188
b Heating and ventilating apparatus. 189
467. Chadburn & Caldwell, Newburg, N. Y. Lawn mowers. J-73 192
468. Cross & Rowe, Bedford, Ind. Stone vases and ornaments. C-74 190
469. Daisy Implement Co., Pleasant Lake, Ind. Garden implements. E-78 & Dept. A 192
470. Danforth, O. L., Mansfield, Ohio. Fruit gatherer. Gal. A-72 145
471. Elliot, J. W., Pittsburg, Pa. Plans, sketches, etc. Gal. X-45 192
472. Frosch, Berthold, Pittsburg, Pa. Plans of parks. Gal. U-49 192
473. Gilbert & Bennett M'fg Co., Chicago. Wire work. Gal. G-47 191
474. Glennon & Krause, Chicago. Lawn mower and grass carrier. D-73 192
475. Graham & Passimore, Philadelphia. Lawn mowers. H-73 192
476. Hardt, H. B., Chicago. Model conservatory. Lawn 188
477. Heissenger, Frank H., New York.
a Plans of greenhouses. Gal. T-49 188
b Plans of parks, gardens, etc. 192
478. Henderson, Peter, & Co., New York.
a Lawn mowers, sweepers, sprinklers, etc. J-78 191
b Grass plots. W. of Gov't Bldg. and W. and N. of Electricity Bldg. 192
479. Hitchings & Co., New York.
a Greenhouse and palm house and section of iron greenhouse. Lawn 188
b Heating apparatus and boiler. Gal. W-35 189
480. Johnson, John C., Atlantic City, N. J. Grotto with aerated water fountain. Gal. F-49 192
481. Lawrence, W. H., Milton, Pa. Terra cotta posts. U-74 191
482. Lord & Burnham, Irvington, N. Y. Greenhouse. Lawn 188
483. Mast, Foos & Co., Springfield, Ohio. Lawn mowers. E-73 192
484. New York Central Iron Works, Geneva, N. Y. Greenhouse boiler. Greenhouse 189
485. Orange Judd Farmer Co., Chicago. Fences. Nursery 191
486. Parkhurst, B. H., Elkland, Pa. Lawn mower. D-73 192
487. Pitcher & Manda, Short Hills, N. J. Designs of gardens, etc. A-77 192
488. Plenty Horticultural & Skylight Works, New York. Greenhouse. Lawn 188
489. Portland Lawn Sprinkler Co., Portland, Me. Lawn sprinklers. C-75 192
490. Pratt, Henry B., Cowansville, Pa. Iron fences and gates. C-73 191
491. Rendle, A., Edgumbe, Philadelphia.
a Conservatory. Lawn 188
b Heating apparatus. A-74 189
492. Roe, J. P., Oshkosh, Wis. Magic spade. Gal. F-49 192

GROUP 26.

Appliances, Methods, Etc.

460. Abendroth Bros., Port Chester, N. Y. Vases and fountains. V-33 192
461. Blair M'fg Co., Springfield, Mass. Lawn mowers, sprinklers, etc. L-68 192
462. Brunswick, M., & Co., Rochester, N. Y. Nursery supplies. X-46 192

UNITED STATES.

- | | |
|--|---|
| 493. Roome, Stabb & Co., New York.
Portable summer house. Lawn 190 | 501. Thomas M'fg Co., Springfield, O.
Lawn mowers. E-P-7 192 |
| 494. Rose, N. Jonson, New York. De-
signs of parks, gardens, etc. Gal. S-49 192 | 502. Thompson M'fg Co., Elkhart, Ind.
Lawn sweepers and rollers. F-78 192 |
| 495. Sardy & Co., New York. Water
tower. Nursery 192 | 503. Vaughn, J. C., Chicago. Horticult-
ural supplies. I-75 192 |
| 496. Sedgwick Bros. Co., Richmond, Ind.
a Wire chairs. D-75 190
b Ornamental wire work. 191
c Summer house. 192 | 504. Von Holdt, F., Denver, Col. Plans
of parks and cemeteries. Gal. E-45 192 |
| 497. Stebe, Emil, Philadelphia. Grotto,
with waterfall. X-33 192 | 505. Whitmore & Barnes M'fg Co., Ak-
ron, O. Lawn mower. E-1-5 Dept. A 192 |
| 498. Stevenson & Thomas, North Bend,
Neb. Tree baler. U-75 192 | 506. Wirt & Knox M'fg Co., Independ-
ence, Mo. Hose reel. C-73 192 |
| 499. Stott Garden Implement Co., New
York. Distributors, sprayers, etc. F-77 192 | 507. Wisconsin State Cranberry Growers'
Ass'n, Mather, Wis. Cranberry bog
Nursery 192 |
| 500. Supplee Hardware Co., Philadelphia.
Lawn mowers, grass catchers. F-73 192 | 508. Wotherspoon, Jas. R., Philadelphia.
Watering pots, etc. B-73 192 |

CALIFORNIA.

GROUP 20.

- | | |
|--|---------|
| 1. Albertz, Ferdinand, Cloverdale. | |
| a White wines. | F-3 126 |
| b Red wines. | 127 |
| c Sweet wines. | 128 |
| d Brandy and grape syrup. | 131 |
| 2. Escondido Land & Town Co., San
Diego. Raisins. | 124 |
| 3. Loud & Gerling, Pomona. Dried
raisins. | 124 |
| 4. Overacker, H., Jr., Centerville.
Grapes. | 123 |

GROUP 21.

- | | |
|--|-----|
| 5. Abbot, M. A., Rivera. Citrus fruits. | 134 |
| 6. Abbott, Tracey, Rivera. Citrus fruits. | 134 |
| 7. Adams, D. K., Chula Vista. Lemons. | 134 |
| 8. Adams, G. B., Alhambra. Citrus
fruits. | 134 |
| 9. Adams, P. T., Tustin. Citrus fruits. | 134 |
| 10. Albertz, Ferdinand, Cloverdale. Cherry
cordial. | 143 |
| 11. Allen, B. F., Chico. | |
| a Peaches, pears and plums. | 133 |
| b Dried peaches. | 139 |
| 12. Allen, L. E., San Diego. Lemons and
oranges. | 134 |
| 13. Anderson, L. C., Alhambra. Citrus
fruits. | 134 |
| 14. Armstrong, H. L., Pomona. Citrus
fruits. | 134 |
| 15. Backus, W. H., Riverside. Citrus
fruits. | 134 |
| 16. Baker, W. R., Pasadena. Dried
prunes and pears. | 139 |
| 17. Baldridge, Jas., Covina. Citrus fruits. | 134 |
| 18. Banbury, J. W., Pasadena. Citrus
fruits. | 134 |
| 19. Bangle, John, Rivera. Madeira nuts. | 137 |
| 20. Barbour, A., Chula Vista. Oranges. | 134 |

- | | |
|---|----------|
| 21. Bellew, M., Milpitas. Apples, apri-
cots, cherries, pears, prunes, plums and
quinces. | 140 |
| 22. Bell, John C., Oroville. Olives and
figs. | 135 |
| 23. Bequette, L. L., Rivera. English
walnuts. | 137 |
| 24. Bidwell, John, Chico. Apricots, cher-
ries, nectarines, peaches, pears and plums. | 133 |
| 25. Bliss Bros., Duarte. Dried plums,
peaches and apricots. | 139 |
| 26. Boetcher, H., Los Angeles. California
chestnuts. | A-78 137 |
| 27. Boehm, D. J., Los Angeles. Fruit in
glass. | R-78 140 |
| 28. Bonine, E. A., Lamanda Park. Dried
apricots. | 139 |
| 29. Boyd, James, Riverside. Citrus fruits. | 134 |
| 30. Brewer, J. W., Vernondale. Citrus
fruits. | 134 |
| 31. Brown, E. G., Riverside. Citrus fruits. | 134 |
| 32. Brown, W. O., Sunnyside. Oranges. | 134 |
| 33. Bundy, M. J., Santa Ana. Citrus fruits. | 134 |
| 34. Burr, John, San Fernando. Dried
raisins and peaches. | 139 |
| 35. Carroll, Tim, Anaheim. Citrus fruits. | 134 |
| 36. Cason, J. S., Pomona. Citrus fruits. | 134 |
| 37. Castleman, J. S., Riverside. Citrus
fruits. | 134 |
| 38. Chapman, A. Scott, San Gabriel.
Citrus fruits. | 134 |
| 39. Chase, Levi, El Cajon. Oranges. | 134 |
| 40. Chico Canning Company, Chico.
Peaches and pears. | 140 |
| 41. Chippendale, Wm., Duarte. Citrus
fruits. | 134 |
| 42. Clark, Edward, Niles. Almonds and
walnuts. | 137 |
| 43. Clellan, Mrs. F. S., Mesa Grande.
English walnuts. | A-78 139 |

DEPARTMENT B.—HORTICULTURE.

- | | |
|--|---|
| 44. Cochems, N., Del Sur. Citrus fruits. | 77. Gordon, J. F., El Cajon. Oranges. |
| 134 | 134 |
| 45. Coffman, C. A., Rivera. | 78. Gordon, J. T., Azusa. Citrus fruits. |
| a Citrus fruits. 134 | 134 |
| b Madeira nuts. 137 | |
| 46. Cole, Geo., Rivera. Madeira nuts. | 79. Granger, Ralph, National City. |
| 137 | Oranges and lemons. 134 |
| 47. Collins, Frank, Orange. Citrus fruits. | 80. Gray, John C., Oroville. Olives and |
| 134 | figs. 135 |
| 48. Cox, W. J., Azusa. Citrus fruits. 134 | 81. Grover, M. V., Oroville. Apples, |
| 49. Clark Bros., Helix. Oranges. 134 | peaches and plums. 133 |
| 50. Crane, E. J., San Lorenzo. Apples, | 82. Guerado, B., Rivera. Madeira nuts. |
| apricots, cherries, pears, plums and | 137 |
| prunes. 133 | |
| 51. Curtner, H., Warm Springs. Almonds. | 83. Guill, John, Chico. Peaches and |
| 137 | pears. 133 |
| 52. Davis, J. H., Rivera. Madeira nuts. | 84. Haddock, Jas., Vernondale. Citrus |
| 137 | fruits. 134 |
| 53. Dobbins, J. R., San Gabriel. Citrus | 85. Hall, Geo. S., Monrovia. Citrus |
| fruits. 134 | fruits. 134 |
| 54. Dorman, A., Rivera. Madeira nuts. | 86. Hall, G. T., Monrovia. Citrus fruits. |
| 137 | 134 |
| 55. Dougherty, J. L., Azusa. Citrus | 87. Halstead, A. S., Alhambra. Citrus |
| fruits. 134 | fruits. 134 |
| 56. Dunham, E., La Canada. Dried | 88. Hannahs, Geo., Sunnyside. Lemons. |
| prunes. 139 | 134 |
| 57. Dunham, Edw., La Canada. Citrus | 89. Hare, Peter O., Bakersfield. Pears. |
| fruits. 134 | 140 |
| 58. Dunlap, A. H., Whittier. Citrus | 90. Harvey, J. S., El Nido. Oranges and |
| fruits. 134 | lemons. 134 |
| 59. Dunn, H. C., Long Beach. Dried figs. | 91. Hawks, A. D., Sierre Madre. |
| 139 | a Citrus fruits. 134 |
| 60. Durfee, J. D., Rivera. Madeira nuts. | b Dried prunes and peaches. 139 |
| 137 | |
| 61. Ellis, H. R., El Cajon. Raisins. | 92. Hewitt, C. B., Pasadena. Dried |
| A-78 137 | peaches. 139 |
| 62. Englehart, H. D., Glendora. Dried | 93. Higgins, H. M., National City. |
| apricots. 139 | Lemons. 134 |
| 63. Entwhistle, Jas., Vernon. Citrus | 94. Holt, L. M., Rialto. Citrus fruits. 134 |
| fruits. 134 | 95. Hommel, J. H., Glendora. Citrus |
| 64. Entler, Joseph, Chico. Peaches and | fruits. 134 |
| plums. 133 | 96. Hooper, A. L., Vernondale. Citrus |
| 65. Fallbrook Horticultural Society, Fall- | fruits. 134 |
| brook. | 97. Howser, J. O., Covina. Citrus fruits. |
| a Green fruits. 133 | 134 |
| b Dried fruits. 139 | 98. Hudson, George H., Niles. Almonds. |
| 66. Ferry, W. H., Lakeside. | 137 |
| a Nuts, etc. H-71 137 | 99. Hudson, Geo. H., Niles. Peaches. 133 |
| b Glacéd figs. 142 | 100. Hutchins, John, Gridley. Apples, |
| 67. Flickinger, J. H., San Jose. | apricots and pears. 133 |
| a Dried apricots, prunes and peaches. | 101. Hutchins, Thos. B., Gridley. Apri- |
| Gal. F-73 139 | cots, peaches and plums. 133 |
| b Preserved cherries, peaches, plums | 102. Hyatt, Frank, Paradise. Oranges. |
| and prunes. 140 | 134 |
| 68. Flourney, G. H., Henleyville. | 103. Invararity, Jas., Vernondale. Citrus |
| a Fresh fruits. C-13 133 | fruits. 134 |
| b Preserved fruits. 140 | 104. Itaum, L., Glendora. Dried apricots. |
| 69. Fogg, E. W., Oroville. | 139 |
| a Citrus fruits. 134 | 105. Jarchow, J. H. F., San Gabriel. |
| b Olives. 135 | Citrus fruits. 134 |
| 70. Ford, Geo. W., Santa Ana. Citrus | 106. Jarvis, Joseph, Riverside. Citrus |
| fruits. 134 | fruits. 134 |
| 71. Ford, W. H., Niles. Almonds. 137 | 107. Jones, C. H., Niles. Peaches and |
| 72. Fox, R. D., San Jose. Peaches and | plums. 133 |
| pears. 140 | 108. Jones, M. S., Tustin. Citrus fruits. |
| 73. Frisbie, J. C., Sunnyside. Oranges. | 134 |
| 134 | 109. Johnson, I. H., Rivera. Madeira |
| 74. Garcelon, C. W., Riverside. Citrus | nuts. 137 |
| fruits. 134 | 110. Johnson, M. D., Los Angeles. Citrus |
| 75. Gibbs, Isaac, Vernondale. Citrus | fruits. 134 |
| fruits. 134 | 111. Johnson, Monroe, Chula Vista. |
| 76. Gooch, T. L., Rivera. | Oranges. 134 |
| a Citrus fruits. 134 | 112. Johnson, O. P., Rivera. Madeira |
| b Madeira nuts. 137 | nuts. 137 |
| | 113. Jones, A. F., Oroville. |
| | a Citrus fruits. 134 |
| | b Fig. 135 |

UNITED STATES.

114. Joplin, Mrs. J. O., Tustin, Cal.
Fruit in glass. R-78 140
115. Kate Bros., Rivera. Madeira nuts. 137
116. Keen, A., & Son, National City.
Lemons. 134
117. Kimball, E. C., Pomona. Citrus
fruits. 134
118. Kimball, F. A., National City.
Lemons. 134
119. Kimball, W. C., National City.
Oranges. 134
120. King, Eli, Rivera. Madeira nuts. 137
121. Kingsley, S. B., Alhambra. Citrus
fruits. 134
122. Knox & Stone, San Lorenzo.
a Apricots, cherries, pears, plums,
peaches and prunes. 133
b Currants. 136
123. Littlefield, S., Anaheim. Citrus fruits.
134
124. Lowell, Alexander, Bakersfield.
Plums. 140
125. Lowell, Wilmot, Bakersfield.
Peaches. 140
126. Mackenzie, J. S., Vernondale. Citrus
fruits. 134
127. Marlin, B. W., San Lorenzo.
a Apricots, apples, cherries, plums,
prunes and pears. 133
b Figs. 135
c Gooseberries. 136
128. Marlin, John P., San Lorenzo.
a Apricots, apples, crabapples,
cherries, pears, prunes, plums,
quinces. 133
b Pomegranates. 135
c Currants, blackberries, raspberries.
136
129. Marshall, S. M., El Cajon. Oranges.
134
130. Martin, J. H., Rivera. Madeira nuts.
137
131. Matson Bros., Rivera. Citrus fruits.
134
132. McClelland, J. J., Rivera. Madeira
nuts. 137
133. McFadden, Wm., Fullerton. Citrus
fruits. 134
134. McGlincey, A. M., Campbell.
Cherries and peaches. 140
135. McKinlay, S., Vernon. Citrus fruits.
134
136. Meade, Thos., Vernondale. Citrus
fruits. 134
137. Meek Estate, San Lorenzo. Almonds,
chestnuts and walnuts. 137
138. Meek Estate, San Lorenzo.
a Apples, apricots, pears, cherries,
plums, prunes, quinces, peaches,
nectarines. 133
b Currants. 136
c Almonds, chestnuts and walnuts. 167
139. Meyers, Mrs. F. H., Irvington.
Almonds. 137
140. Miller, Henry, Bakersfield. Pears.
140
141. Miller, Jacob, Colegrove. Cheri-
moyers. 135
142. Millsap, Thos., Vernondale. Citrus
fruits. 134
143. Montgomery, J. A., Rivera. Madeira
nuts. 137
144. Montgomery, H. L., Rivera. Madeira
nuts. 137
145. Morse, Peter, Chula Vista. Oranges.
134
146. Mosher, H. E., Niles. Almonds. 137
147. Mosher, H. E., Niles.
a Peaches. 133
b Almonds. 137
148. Moss, H., Rivera. Madeira nuts. 137
149. Moss, Wm., Rivera.
a Citrus fruits. 134
b Madeira nuts. 137
150. Mott, Fletcher, Perris. Oranges. 134
151. Moyse, J., Rivera. Madeira nuts.
137
152. Naftzger, A. H., Riverside. Citrus
fruits. 134
153. Nance, T., Santa Paula, Cal. Soft
shell English walnuts. A-78 137
154. Neilson, H., San Lorenzo.
a Apricots, cherries and plums. 133
b Figs. 135
c Currants, blackberries and rasp-
berries. 136
155. Nolton, Albert, Vernon. Citrus
fruits. 134
156. Overacker, Charles B., Niles. Almonds
and chestnuts. 137
157. Overacker, H., Jr., Centerville.
Peaches and prunes. 133
158. Overholtzer, S. A., Covina. Citrus
fruits. 134
159. Packard, J. E., Pomona. Citrus
fruits. 134
160. Parker, J. B., Orange. Citrus fruits.
134
161. Park, H. C., Bakersfield. Nectar-
ines. 140
162. Passons, T. R., Rivera. Madeira
nuts. 137
163. Patterson, F. E., Helix. Oranges.
134
164. Patterson, George, Decoto. Hickory
nuts. 137
165. Payne, Brown, Chula Vista.
Oranges. 134
166. Perkins, D. K., Oroville. Apples,
pears, peaches, plums and cherries. 133
167. Phillips, A., Alhambra. Citrus fruits.
134
168. Pollard, E., Alhambra. Citrus fruits.
134
169. Porter, L. D., Pasadena Dried
peaches and prunes. 139
170. Porter, L. S., Pasadena Citrus
fruits. 134
171. Prentice, W. B., Helix. Lemons.
134
172. Puls, A. A., Riverside. Citrus fruits.
134
173. Randall, Philip, Bakersfield. Quinces.
140
174. Reynolds, E. T., Chico. Apricots,
peaches and plums. 133
175. Richardson, S., Alhambra. Citrus
fruits. 134
176. Roberts, John W., Riverside. Citrus
fruits. 134
177. Roberts, Henry, Azusa. Citrus
fruits. 134
178. Rogers, Ashley C., Azusa. Citrus
fruits. 134
179. Russell & King, San Lorenzo. Apri-
cots, apples, cherries, plums, pears and
quinces. 133

DEPARTMENT B.—HORTICULTURE.

- | | | | |
|--|----------|---|----------|
| 180. San Diego Land & Town Co., National City. Lemons. | 134 | 212. Swayne, E. J., National City. Oranges. | 134 |
| 181. San Marcos Land Company, San Diego. Green fruit. | 133 | 213. Swayne, F. J., National City. Oranges. | 134 |
| 182. Sargent, E. P., Riverside. Citrus fruits. | 134 | 214. Thompson, A. C., Duarte. Citrus fruits. | 134 |
| 183. Scott, John, Duarte. Citrus fruits. | 134 | 215. Thompson, C. C., Pasadena. Dried prunes and peaches. | 139 |
| 184. Sewell, D. B., Tustin. Citrus fruits. | 134 | 216. Thompson, R. A., Escondido. Oranges and grape fruit. | 134 |
| 185. Shaw, Woolsey, Berryessa. Cherries, prunes and peaches. | 140 | 217. Thorpe, S. R., Los Angeles. Dried apricots. | 139 |
| 186. Shinn, J., Niles. Nuts. | 137 | 218. Thresher Bros., Gridley. Peaches, plums, pears and prunes. | 133 |
| 187. Shinn, J., Niles. | | 219. Tweedy, J. J., Rivera. Madeira nuts. | 137 |
| <i>a</i> Plums, peaches. | 133 | 220. Twogood, D. C., Riverside. Citrus fruits. | 134 |
| <i>b</i> Citrus fruits. | 134 | 221. Wadsworth, F. O., San Diego. Lemons and oranges. | 134 |
| <i>c</i> Figs. | 135 | 222. Waite, L. C., Riverside. Citrus fruits. | 134 |
| <i>d</i> Almonds, butternuts, chestnuts, pistachio, pecans, walnuts. | 137 | 223. Wall, W. B., Tustin. Citrus fruits. | 134 |
| 188. Silver, J. W., Rivera. Madeira nuts. | 137 | 224. Watson, Ernest, Duarte. Citrus fruits. | 134 |
| 189. Smith, A. Guy, Tustin. Citrus fruits. | 134 | 225. Webb, E. O., San Lorenzo. | |
| 190. Smith, C. C., Evergreen. Oranges. | 140 | <i>a</i> Cherries, pears, plums, prunes and quinces. | 133 |
| 191. Smith, Fred J., Pomona. Citrus fruits. | 134 | <i>b</i> Persimmons. | 133 |
| 192. Smith, Julius P., Livermore. Pears. | 133 | 226. Weeks, A. C., Alhambra. Citrus fruits. | 134 |
| 193. Smith, R. H., Vernon. Citrus fruits. | 134 | 227. White, D., Rivera. Madeira nuts. | 137 |
| 194. Smyth, H., San Lorenzo. | | 228. White & Hankey, Santa Ana. English walnuts. | A-78 137 |
| <i>a</i> Apricots, cherries, pears, plums, prunes, crabapples and quinces. | 133 | 229. Wilcox, C. W., Tustin. Citrus fruits. | 134 |
| <i>b</i> Currants and gooseberries. | 136 | 230. Wiley, Wm., Rivera. Madeira nuts. | 137 |
| 195. Snow, H. K., Tustin. Citrus fruits. | 134 | 231. Williams, Mrs. E. L., Chula Vista. Oranges and lemons. | 134 |
| 196. Snyder, Andrew, Vernondale. Citrus fruits. | 134 | 232. Wilson, Wm., Chula Vista. Oranges. | 134 |
| 197. Somers, W. H., Santee. Oranges. | 134 | 233. Winton, F. C., Haywards. | |
| 198. Sonoma Preserve Co., Petaluma, Sonoma Co. | | Almonds. | 137 |
| <i>a</i> Preserves. | R-78 140 | 234. Woodbridge, W. D., Escondido. Oranges. | 134 |
| <i>b</i> Jams, jellies, etc. | 141 | 235. Wright Bros., Riverside. Citrus fruits. | 34 |
| 199. Staley, Theo., Fullerton. Citrus fruits. | 134 | | |
| 200. St. Claire, I., Covina. Citrus fruits. | 134 | | |
| 201. Stender, A. G., Chula Vista. Lemons. | 134 | | |
| 202. Stenzel Bros., San Lorenzo. Apricots, plums and pears. | 133 | | |
| 203. Stevenson, Richard, Otay. Lemons. | 134 | | |
| 204. Stevenson, Wm., Pasadena. Dried raisins and peaches. | 139 | | |
| 205. Stewart, James, Downey. | | | |
| <i>a</i> Citrus fruits. | 134 | | |
| <i>b</i> Dried figs. | 139 | | |
| 206. Stokes, A. J., Chollas Valley. Oranges. | 134 | | |
| 207. Story, F. Q., Alhambra. Citrus fruits. | 134 | | |
| 208. Story, H. L., San Diego. Oranges. | 134 | | |
| 209. Strawbridge, Wm., Whittier. Citrus fruits. | 134 | | |
| 210. Strong, Harriet W. R., Whittier. Citrus fruits. | 134 | | |
| 211. Swair, A. H., Bakersfield. Pears. | 140 | | |

GROUP 22.

- | | |
|--|-----|
| 236. Richardson, C. H., Pasadena. Rose trees. | 147 |
| 237. Spears, Mrs. Kate, Los Angeles. Rose trees. | 147 |

GROUP 23.

- | | |
|--|-----|
| 238. Atkinson, B., Los Angeles. | |
| <i>a</i> Potatoes. | 173 |
| <i>b</i> Asparagus. | 174 |
| 239. Baker, W. R., Pasadena. Vegetables. | 176 |
| 240. Barber, R. S., Alviso. | |
| <i>a</i> Tomatoes. | 172 |
| <i>b</i> Onions. | 173 |
| 241. Beasley, E. E., Fullerton. Cabbage. | 174 |
| 242. Bellew, M., Milpitas. | |
| <i>a</i> Cucumbers. | 172 |
| <i>b</i> Onions. | 173 |
| 243. Boggs, S. C., Newcastle. | |
| <i>a</i> Peas. | 172 |
| <i>b</i> Sweet potatoes. | 173 |

UNITED STATES.

244. Butler, J. M., Los Angeles. Potatoes.	173	262. Nicom, Roland, San Jose.	
245. Cabral, M., San Lorenzo.		<i>a</i> Pepper, okra, rhubarb.	172
<i>a</i> Onions.	173	<i>b</i> Sweet corn.	172
<i>b</i> Garlic.	174	263. Nims, R., Newcastle. Onions.	173
246. Carey, S., Newcastle. Peas, beans and tomatoes.	172	264. Parker, E. W., Eagle Rock. Peppers and tomatoes.	172
247. Casselli, Vincenzo, San Jose. Sweet corn.	176	265. Penman, Daniel, Los Angeles. Beans, peas and tomatoes.	172
248. Cole, Seward, Colegrove.		266. Peralta Bros., Alameda. Vegetables.	172-173-175
<i>a</i> Beans, peas, peppers and tomatoes.	172	267. Rapp, Wm., Colegrove.	
<i>b</i> Beets, carrots, potatoes, turnips and sweet potatoes.	173	<i>a</i> Potatoes.	173
<i>c</i> Green corn, etc.	175	<i>b</i> Green corn and egg plant.	175
249. Coyner, J. E., The Palms. Beets and turnips.	173	268. Roberts, O. E., Colegrove. Pepper and tomatoes.	172
250. Durfee, P. S., Colegrove.		269. Sherman Bros., Newcastle. Corn.	172
<i>a</i> Peas, peppers, cucumbers, beans and tomatoes.	172	270. Smyth, H., San Lorenzo. Tomatoes.	172
<i>b</i> Beets, turnips and carrots.	173	271. Sonoma Preserve Co., Petaluma. Pickles.	177
251. Farrelly, R. S., San Leandro. Potatoes.	173	272. Stenzel Bros., San Lorenzo. Tomatoes.	172
252. Flourney, B. H., Henleyville.		273. Steuzil Bros., San Lorenzo. Tomatoes.	172
<i>a</i> Tomatoes and cucumbers.	172	274. Strawbridge, W. T., Whittier.	
<i>b</i> Beets, carrots and potatoes.	173	<i>a</i> Turnips, potatoes and beets.	173
<i>c</i> Asparagus and cabbage.	174	<i>b</i> Cabbage.	174
<i>d</i> Pickles.	177	275. Wilson, W. S., Newcastle. Tomatoes.	173
253. Gower, G. T., Colegrove. Radishes, turnips, potatoes and beets.	173	276. Worthington, F. W., Haywards. Cucumbers and tomatoes.	172
254. Holland, E. J., San Leandro. Cucumbers.	172		
255. Jones, A., San Leandro.			
<i>a</i> Cucumbers.	172		
<i>b</i> Onions.	173		
256. Liedel, E. H., Haywards. Peas.	172		
257. Luccock, T. J., Clearwater. Cabbage.	174		
258. Marlin, John P., San Lorenzo. Beets.	173		
259. Meek Estate, San Lorenzo. Rhubarb.	174		
260. Miller, Jacob, Colegrove.			
<i>a</i> Tomatoes, okra, peppers, cucumbers, peas and beans.	172		
<i>b</i> Beets, carrots and potatoes.	173		
261. Murdock, S. J., Westminster.			
<i>a</i> Peppers and cucumbers.	172		
<i>b</i> Onions, beets and sweet potatoes.	173		
<i>c</i> Rhubarb.	174		

GROUP 25.

277. Coronel, Mrs. A. T., Los Angeles. Loquat trees.	Open court	186
278. Dillon, H. C., Long Beach. Lemon and orange trees.	Open court	186
279. Drifill, J. A., Pomona. Orange trees.		186
280. Los Angeles Farm Co., Los Angeles. Orange trees.	Open court	186
281. Rust & Son, H. N., South Pasadena. Shaddock, tangerine and loquat trees.	Open court	186
282. Richardson, C. H., Pasadena. Fig and guava trees.	Open court	186
283. Strawbridge, W. J., Whittier. Orange tree.	Open court	186

COLORADO.

GROUP 20.

1. Bell Bros., Montrose. Grapes.	122	9. Horlon, Mrs. Kate L., Grand Junction. Grapes.	122
2. Brene, G. P., Cañon City. Grapes.	122	10. Hotchkiss, E. T., Hotchkiss. Grapes.	122
3. Carr, A. W., Delta. Grapes.	122	11. Hoyt, A. B., Grand Junction. Grapes.	122
4. Coburn, W. S., Paonia. Grapes.	122	12. Kiefer Bros., Fruita. Grapes.	122
5. Faucett, G. W., Paonia. Grapes.	122	13. McGranaman, G. B., Delta. Grapes.	122
6. Felton, W. B., Cañon City. Grapes.	122	14. Olds, O. M., Grand Junction. Grapes.	122
7. Frazer, Jesse, Florence. Grapes.	122	15. Orr, Robt. A., Grand Junction. Grapes.	122
8. Gravestock, John, Cañon City. Grapes.	122		

DEPARTMENT B.—HORTICULTURE.

16. Rockafellow, B. F., Cañon City. 122
Grapes. 122
17. Ross, Mrs. Ruth, Cañon City. Grapes. 122
18. Trout, W. H., Cañon City. Grapes. 122
19. Wade, Samuel, Paonia. Grapes. 122

GROUP 21.

20. Ackerman, Jas., Boulder. Fruits. 133
21. Anderson, J. M., Boulder. Fruits. 133
22. Ault, W., Paonia. Fruits. 133
23. Baldwin, Geo. O., Cañon City. Fruits. 133
24. Bergen, W. H., Grand Junction. 133
Fruits. 133
25. Bird, H. W., Denver. Fruits. 136
26. Blair, E., Grand Junction. Fruits. 133
27. Bonegarden, Wm., Grand Junction. 133
Fruits. 133
28. Bones, Chas. A., Denver. Fruits. 133
29. Boulder County Horticultural Society, 133
Boulder. Fruits. 133
30. Brown, H. R., Denver. Fruits. 136
31. Bruce, A. R., Paonia. Fruits. 133
32. Butters Canning Company, Denver. 133
Jellies. 141
33. Cassell, J., Grand Junction. Fruits. 133
34. Church, O. W., Montrose. Fruits. 133
35. Coffman, W. H., Whitewater. Fruits. 133
36. Colorado State Bureau of Horticulture, 133
Denver. Fruits. 133
37. Curtis, H. H., Littleton. Fruits. 133
38. Delta County Horticultural Society, 133
Paonia. Fruits. 133
39. Denver Fruit Growers' Ass'n, Den- 133
ver. Fruits. 133
40. Dillon, B., Montrose. Fruits. 133
41. Dunfee, J. D., Cañon City. Fruits. 133
42. Edson, Mrs. M. D., Pueblo. Fruits. 133
43. Fleming, J. D., Pleasant Valley. 133
Fruits. 133
44. Foss, M. D., Pueblo. Fruits. 133
45. Frady, J. H., Hotchkiss. Fruits. 133
46. Fremont County Horticultural Society, 133
Fremont. Fruits. 133
47. Frost, G. A., Montrose. Fruits. 133
48. Garbutt, H. I., Fort Collins. Fruits. 133
49. Goss, J. W., Hygiene. Fruits. 133
50. Haden, A. C., Pueblo. Fruits. 133
51. Heath, H. T., Montrose. Fruits. 133
52. Helm, W. A., Cañon City. Fruits. 133
53. Hoag, A. N., Fort Collins. Fruits. 133
54. John, Dan H., Fruit. Fruits. 133
55. Kohler, Henry, Delta. Fruits. 133
56. Kuner Pickle Company, Denver 133
Cider. 133
57. Lem, S. G., Fruit. Fruits. 133
58. Larimer County Horticultural Society, 133
Fort Collins. Fruits. 133
59. McClelland, J. S., Fort Collins. 133
Fruits. 133
60. McGinty, J. B., Hotchkiss. Fruits. 133
61. McIntosh, R. G., Boulder. Fruits. 133
62. McRay, G. F., Cañon City. Fruits. 133
63. Mesa County Horticultural Society, 133
Grand Junction. Fruits. 133
64. Montrose County Horticultural Society, 133
Montrose. Fruits. 133
65. Nelson, R. B., Eaton. Fruits. 133
66. Nye, S. H., Montrose. Fruits. 133
67. Osborne, W. B., Loveland. Fruits. 136
68. Otero County Horticultural Society, 133
Rocky Ford. Fruits. 133
69. Overbay, W. H., Delta. Fruits. 133
70. Peninston, J. R., Whitewater. Fruits. 133
71. Pierce, John, Beaver Creek. Fruits. 133
72. Prescott, Thomas, Cañon City. Fruits. 133
73. Pueblo District Horticultural Associa- 133
tion, Pueblo. Fruits. 133
74. Rhone, H. R., Grand Junction. Fruits. 133
75. Rice, P. A., Grand Junction. Fruits. 133
76. Robinson, Lyman, Cañon City. Fruits. 133
77. Rose Bros. & Hughes, Fruit. Fruits. 133
78. Ross Bros., Montrose. Fruits. 133
79. Scott, W. L., Fort Collins. Fruits. 133
80. Sheperd, Wm., Paonia. Fruits. 133
81. Shopshire, R. W., Whitewater. 133
Fruits. 133
82. Smith Bros., Grand Junction. Fruits. 133
83. Smith, G. W., Denver. Fruits. 136
84. Smith, J. A., Cañon City. Fruits. 133
85. Spear, G. J., Greeley. Fruits. 133
86. Sporr, A. J., Delta. Fruits. 133
87. Standish, O. F., Hotchkiss. Fruits. 133
88. Stark Bros., Littleton. Fruits. 133
89. State of Colorado, Denver. Fruits in 138
wax. 138
90. Stephens, David, Paonia. Fruits. 133
91. Swink, G. W., Rocky Ford. Fruits. 133
92. Taft, Louis B., Fort Collins. Fruits. 133
93. Wade, B. F., Paonia. Fruits. 133
94. Waters, Chas., Grand Junction. 133
Fruits. 133
95. Watrous, W. F., Fort Collins. Fruits. 133
96. Wells, F. S., Cañon City. Fruits. 133
97. Weston, Eugene, Cañon City. Fruits. 133
98. Wilmore, W. W., Denver. Fruits. 136
99. Wolfe, Albert, Denver. Fruits. 136
100. Wurtz, H. G., Grand Junction. 133
Fruits. 133

GROUP 25.—NURSERY GROUNDS.

101. Blackman & Penrose, Whitewater. 186
Fruit trees. 186
102. Coburn, W. S., Paonia. Fruit trees. 186
103. Crawley, J. H., Rocky Ford. Fruit 186
trees. 186
104. DeWeese, Dall, Cañon City. 186
a Fruit trees. 186
b Nursery stock. 187
105. Pennock, Chas. E., Fort Collins. 186
a Fruit trees. 186
b Nursery stock. 187

IDAHO.

GROUP 20.

1. Plowhead, Jacob, Middleton. Grapes. 122
2. Stevenson, E. A., Boise City. Grapes. 122

GROUP 21.

3. Adams, G. W., Mann's Creek. Fruits. 133
4. Aiken, Thomas, Boise City. Fruits. 140
5. Allen, Levi, Salubria. Fruits. 133
6. Badley, D. B., Caldwell. Fruits. 140
7. Blessinger, A. A., Star. Fruits. 140
8. Boulding, Mr Leland. Fruits. 133
9. Brown, Chas., Horse Shoe Bend. Fruits. 140
10. Brown, Jonas, Boise City. Fruits. 140
11. Brown, R., Browlse. Fruits. 133
12. Brownwell, Richard, Boise City. Fruits. 133
13. Brunzel, Fred., Onyhee. Fruits. 133
14. Bryan, Wm., Boise City. Prunes. 139
15. Bubb, Wm., Boise City. Fruits. 133
16. Childs, Wm., Boise City. Nuts. 137
17. Cobb, J. N., Weiser. Fruits. 133
18. Costin, I. N., Boise City. *a* Fruits. 133
b Preserved fruits. 140
19. Cox, S. H., Boise City. Fruits. 140
20. Curtis, Gen., Boise City. Fruits. 133
21. Daggett, Monroe, St. Maries. Fruits. 133
22. Daly, Ike, Boise City *a* Apples. 133
b Preserved fruits. 140
23. Davis, Thomas, Boise City. Fruits. 133
24. Door, Absalom, Boise City. Fruits. 136
25. Downs, J. C., St. Maries. Fruits. 133
26. Eagan, Mrs. E. S., Oakley. Fruits. 133
27. Ellis, G. D., Boise City. Fruits. 140
28. Ethell, Tuck, Mountain Home. Fruits. 133
29. Evans, John, Lewiston. Fruits. 133
30. Fenderson, Wm., Lewiston. Nuts. 137
31. Flanagan, James, Boise City. *a* Fruits. 133
b Preserved fruits. 140
32. Foot, S. S., Middleton. *a* Fruits. 133
b Preserved fruits. 140
33. Fordyce, W. H., Lewiston. Fruits. 133
34. Frank, A., Boise City. Peaches. 133
35. Frank, C., Boise City. Fruits. 133
36. Frank, C. H., Boise City. Fruits. 140
37. Frost, George, Lewiston. Fruits. 133
38. Garby, C., Leland. Fruits. 133
39. Gay, Mrs. Eugene, St. Maries. Fruits. 133
40. Glorin, Mrs. Finely, Boise City. Fruits. 133
41. Goodwin, M. H., Boise City. *a* Fruits. 133
b Preserved fruits. 140
42. Grandholm, Fred., Boise City. Fruits. 133
43. Groon, John, Middleton. Fruits. 140
44. Groon, John, Star. Fruits. 133
45. Hannah, V. D., Weiser. *a* Fruits. 133
b Small fruits. 136
46. Hart, I. M., Weiser. Fruits. 133
47. Hartinger, J. A., Leland. Fruits. 133
48. Hartley, W. H., Mann's Creek. Fruits. 133
49. Heitfield, Henry, Uniontown. Fruits. 136
50. Heppler, John, Cameron. Fruits. 133
51. Hill, George, Mountain Home. Fruits. 133
52. Himrod, Chas., Boise City. Fruits. 133
53. Holcomb, Chas., Boise City. *a* Fruits. 133
b Preserved fruits. 140
54. Holt, F., Lewiston. Fruits. 133
55. Ireton, Mrs. John, Marsh. Fruits. 133
56. Jacobs, Mrs. C., Boise City. Fruits. 140
57. Jones, Wm., Roy Creek. Fruits. 133
58. Joslin, C. M., Mann's Creek. Fruits. 133
59. Keithley, Levi, Middle Valley. Fruits. 133
60. Kelly, M. A., Lewiston. Fruits. 133
61. Kittenbach, W. F., Lewiston. Fruits. 133
62. Krall, John, Boise City. Fruits. 133
63. Lausden, L., Mann's Creek. Fruits. 133
64. Leigh, Mrs., Boise City. Fruits. 133
65. Lemp, John, Boise City. *a* Plums. 133
b Fruits. 140
66. Lindsay, Tilford, Indian Valley. Fruits. 133
67. Little, George, Caldwell. Nuts. 137
68. Maynard, John, Boise City. Fruits. 133
69. McCarty, Mrs. M., Boise City. *a* Fruits. 133
b Preserved fruit. 140
70. McClelland, John, Boise City. Fruits. 133
71. McConnell, D. K., Boise City. Fruits. 133
72. McDonald, F. H., Boise City. Nuts. 137
73. McDonald, F. H., Star. Fruits. 140
74. McDowell, Samuel, Star *a* Fruits. 133
b Preserved fruits. 140
75. McGinniss, R. F., Boise City. Fruits. 140
76. Michael, D., Mann's Creek. Fruits. 133
77. Miller, Julius, Boise City. Fruits. 133
78. Moore, Mrs. C. W., Boise City. Fruits. 133

DEPARTMENT B.—HORTICULTURE.

79.	Neisbitt, Peter, Middleton.	Plums.	133	105.	Spaulding, Mrs. M. L., Boise City.	Fruits.	133
80.	Nicholls, James K., Caldwell.	Fruits.	140	106.	Stanahan, C. T., Lewiston.	Fruits.	133
81.	Nye, W. H., Boise City.	Fruits.	133	107.	State of Idaho, Boise City.	Fruits.	133
82.	O'Farrell, John, Boise City.	Fruits.	140	108.	Tailor, L. M., Mann's Creek.	Fruits.	133
83.	Parker, Mark, Weiser.	Fruits.	133	109.	Thomas, A. T., Boise City.		
84.	Paynton, Mrs. Chas., Boise City.	Fruits.	140		a Fruits.		133
85.	Peacott, Jos., Boise City.	Fruits.	133		b Preserved fruits.		140
86.	Pence, John, Boise City.	Fruits.	133	110.	Tracey, G. H., Weiser.	Fruits.	133
87.	Phillips, J. H., Salubria.	Fruits.	133	111.	Tyner, I. L., Boise City.		
88.	Plowhead, Jacob, Middleton.				a Fruits.		133
		a Plums.	133		b Preserved fruits.		140
		b Fruits.	140	112.	Utiley, E. E., Mann's Creek.	Fruits.	133
89.	Potter, L. D., Caldwell.	Fruits.	133				
90.	Powell, C. O., Challis.	Fruits.	133	113.	Vernon, John, Lewiston.	Fruits.	133
91.	Preston, Jos., Mann's Creek.	Fruits.	133	114.	Walling, J. B., Boise City.	Fruits.	133
92.	Randal, Wm., Boise City.	Peaches.	133				
93.	Redway, K. G., Boise City.	Fruits.	140	115.	Warrens, James, Asotin.	Fruits.	133
94.	Redway, Mrs., Boise City.	Fruits.	140	116.	Webb, D. W., Mann's Creek.	Fruits.	133
95.	Robinson, Mr., Boise City.	Fruit.	140	117.	Wheatcroft, Mr., Lewiston.	Fruits.	133
96.	Rynearson, W. S., Indian Valley.	Fruits.	133	118.	Wilson, Mrs., Albert, Payette.	Fruits.	133
97.	Saling, John, Mann's Creek.	Fruits.	133	119.	Wilson, Robt., Boise City.		
98.	Sampson, Mr., Lewiston.	Fruits.	133		a Fruits.		133
99.	Sater Bros., Mann's Creek.	Fruits.	133		b Preserved fruits.		140
100.	Scott, Mrs. F. G., St. Maries.	Fruits.	133	120.	Winkles, Geo. F., Council Valley.	Fruits.	133
101.	Shannon, F., Mann's Creek.	Fruits.	133				
102.	Sherman, Robt., Boise City.	Fruits.	133	121.	Wood, Mrs., Challis.	Fruits.	133
				122.	Worthington, Cnt, Oakley.	Fruits.	133
103.	Silcott, John, Lewiston.	Fruits.	133				
104.	Southwick, S. R., Southwick.	Fruits.	133	123.	Worthington, P., Oakley.	Fruits.	133
				124.	Yearian, A. S., Boise City.	Fruits.	140
				125.	York, Mrs., Salubria.	Fruits.	133
					GROUP 23.		
				126.	De Lamar, John R., Boise City.	Vegetables.	176

ILLINOIS

GROUP 20.

Fursman, E. S., El Paso.	
a Grapes for the table.	122
b Grapes for wine making.	123

GROUP 21.

2. Aldrich, H. A., Neoga. Fruits.	133
3. Auer, Jacob, Deer Plain. Fruits.	133
4. Austin, A. B., Downer's Grove. Fruits.	133
5. Austin, C. E., Effingham. Fruits.	133
6. Baldwin, M. D., Jacksonville. Fruits.	133
7. Barnard, O. B., Mantino. Fruits.	133
8. Barter, Wm., Attila. Fruits.	133
9. Baxter, E., Nauvoo. Fruits.	133
10. Bear, L. N., Mt. Vernon. Fruits.	133
11. Berry, R. C., Batchtown. Fruits.	133
12. Bone, F. E., Tallula. Nuts.	137
13. Brown, H. D., Hamilton. Fruits.	133
14. Brown, J. S., Alton. Fruits.	133
15. Brumback, David, Danforth. a Pomaceous and stone fruits. 133 b Nuts. 137	

16. Bryant, H., Princeton. Fruits.	133
17. Bryant, L. R., Princeton. Fruits.	133
18. Buckman, Benj., Farmingdale. Fruits.	133
19. Buli, J. C., Girard. Fruits.	133
20. Cain, J. W., Effingham. Fruits.	133
21. Caldwell, W. E., Griggsville. Fruits.	133
22. Carbin, Eli, Carbin Cliff. Fruits.	133
23. Cart, J. J., Morrisville. Fruits.	133
24. Chester, T. P., Champaign. a Pomaceous and stone fruits. 133 b Nuts.	
25. Cook, G. W., Lacon. Fruits.	133
26. Cope, A., Tonti. Fruits.	133
27. Cotta, J. V., Nursery. Fruits.	133
28. Craine, W. R., Villa Ridge. Fruits.	133
29. Cramner, E. C., Fairfield. Fruits.	133
30. Curtee, Clyde, Tamaroa. Fruits.	133
31. Dewe, John, Kankakee. Fruits.	133
32. Down, H. L., Jacksonville. Fruits.	133
33. Dunlap, A. J., Dunlap. Fruits.	133
34. Dunlap, H. M., Savoy. Fruits.	133
35. Dunlap, R. L., Savoy. Fruits.	133

UNITED STATES.

36. Dyer, W. S., Springfield. Fruits. 133
 37. Edmonds, H. P., Taylor.
 a Apples. 133
 b Nuts. 137
 38. Endicott, G. W., Villa Ridge. Fruits. 133
 39. Falin, Jas., Villa Ridge. Fruits. 133
 40. Freeman, D. H., Metropolis. Fruits. 133
 41. Fry, R. T., Olney. Fruits. 133
 42. Fuller, J. W., Anna. Fruits. 133
 43. Fursman, E. S., El Paso. Nuts. 137
 44. Goodrich, S., Urbana. Fruits. 133
 45. Goodrich, T. E., Cobden. Fruits. 133
 46. Gould, W. E., Villa Ridge. Fruits. 133
 47. Graves, E. W., Sandwich. Fruits. 133
 48. Gray, D. H., Elmwood. Fruits. 133
 49. Hammond, A. C., Warsaw. Fruits. 133
 50. Hammond, M. S., Warsaw. Fruits. 133
 51. Hanna, R. P., Fairfield. Fruits. 133
 52. Harrison, Jay, Flora. Fruits. 133
 53. Hartman, C. F., Nashville. Fruits. 133
 54. Hartwell, J. L., Dixon. Fruits. 133
 55. Hauser, Henry, Franklin Grove. Fruits. 133
 56. Helms, F., Belleville. Fruits. 133
 57. Helms & Ripley, Belleville.
 a Pomaceous and stone fruits. 133
 b Nuts. 137
 58. Henke, Ludwig, Collinsville. Fruits. 133
 59. Hessler, W. P., Cobden. Fruits. 133
 60. Hill, D., Dundee. Fruits. 133
 61. Hinkley, A. H., Du Bois. Fruits. 133
 62. Hohnes, Oliver, Fairfield. Fruits. 133
 63. Hooker, M. A., McLeansboro.
 a Pears, apples, etc. 133
 b Nuts in variety. 137
 64. Huber, T., Illinois City. Fruits. 133
 65. Irish, H. P., Farina. Fruits. 133
 66. Johnson, J. T., Warsaw. Fruits. 133
 67. Johnston, H., Villa Ridge. Fruits. 133
 68. Jones, W. E., Lincoln. Fruits. 133
 69. Jones, W. E., Lincoln. Pomaceous and stone fruits. 133
 70. Kimmel, W. G., Jonesboro.
 a Pomaceous and stone fruits. 133
 b Nuts. 137
 71. La Rosh, S. D., Pekin.
 a Pomaceous and stone fruits. 133
 b Fruits in alcohol. 140
 72. Leeper, T. T., Lima. Fruits. 133
 73. Mann, F. J., Gilmore. Fruits. 133
 74. Massac Co., Fruit Growers' Ass'n, Metropolis.
 a Pomaceous and stone fruits. 133
 b Nuts. 137
 75. Matthews, J. B., Marissa. Fruits. 133
 76. McCaffery, J., Cobden. Fruits. 133
 77. McCluer, G. W., Champaign. Fruits. 133
 78. McHinstey, John, Dixon. Fruits. 133
 79. McSpadalen, J. Z., Neoga. Fruits. 133
 80. Mendenhall, E. G., Kinmundy. Fruits. 133
 81. Morris, John, Fairfield. Fruits. 133
 82. Moyer, John E., Dixon. Fruits. 133
 83. Neeper, A., Kinmundy. Fruits. 133
 84. Neeper, A., Kinmundy. Nuts. 137
 85. Norris, W. A., Vernon. Fruits. 133
 86. Orr, A. W., Ottawa. Fruits. 133
 87. Perrine, C. M., Fairfield. Fruits. 133
 88. Perrine, W. S., Centralia. Fruits. 133
 89. Perry, Richard, Griggsville. Fruits. 133
 90. Perry, Wm., Milton. Fruits. 133
 91. Piper, D. J., Forreton. Fruits. 133
 92. Powell, C. R., Sterling. Fruits. 133
 93. Prescott, C. H., Marengo. Fruits. 133
 94. Prindell, D. W., Villa Ridge. Fruits. 133
 95. Ralston, J. A., Farmingdale. Fruits. 133
 96. Rice, A., Rockford. Fruits. 133
 97. Ricke, E. A., Alton. Fruits. 133
 98. Ross, W. S., Alma. Fruits. 133
 99. Russell, A. E., Shattuc. Nuts. 137
 100. Ryder, A. B., Fairfield. Fruits. 133
 101. Seiler, J. E., Mt. Carmel.
 a Pears, apples, peaches, plums. 133
 b Nuts. 137
 102. Sibley, C. W., Pana.
 a Fruits. 133
 b Nuts. 137
 103. Smith, H. C., Toloni. Fruits. 133
 104. Smith, J. S., Champaign. Fruits. 133
 105. Spaulding, J. B., Spaulding. Fruits. 133
 106. Spencer, N. W., Centralia. Fruits. 133
 107. Stevens, S. N., Warsaw. Fruits. 133
 108. Stewart A., Champaign. Fruits. 133
 109. Stewart, E., Hamilton. Fruits. 133
 110. Stinbler, Phil., Naperville. Fruits. 133
 111. Stoddard, S. R., Effingham. Fruits. 133
 112. Upton, John, Springfield. Fruits. 133
 113. Vickroy, H. K., Normal. Fruits. 133
 114. Voies, T. D., Neoga. Fruits. 133
 115. Wallner, J. T., Neoga. Fruits. 133
 116. Warfield, B. C., Sandoval. Fruits. 133
 117. Watson, E. B., Waverly. Fruits. 133
 118. Webster, C. H., Centerville. Fruits. 133
 119. Weedman, T. S., Farmer City.
 a Pears, apples, peaches. 133
 b Nuts. 137
 120. Wells, G. C., Farina. Fruits. B-26 133
 121. Wilson, A. C., Batchtown. Fruits. 133
 122. Wilson, C. C., Fairfield. Fruits. 133
 123. Wilson, J. C., Olney. Fruits. 133
 124. Whiting, H. A., Franklin Grove. Fruits. 133
 125. Winn, C. G., Griggsville. Fruits. 133
 126. Woodward, L., Marengo. Fruits. 133
 127. Worthen, G. B., Warsaw. Fruits. 133
 128. Wright, W. B., Effingham. Fruits. 133
 129. Youngs, David, Carmi. Fruits. 133
 130. Zook, J. L., Olney. Fruits. B-26 133
- GROUP 22.**
131. Edmonds, H. P., Taylor. Ferns. 160
- GROUP 23.**
132. Anderson, Mollie, Taylor. Beans. Dept. A 172
 133. Banscher, Louis, Freeport. Miscellaneous vegetables. 175
 134. Beck, Antoinet.
 a Beans and peas. Dept. A 172
 b Turnips, carrots. 173
 c Cabbage. 174
 135. Brumback, David, Danforth.
 a Beans, tomatoes, cucumbers, etc. 172
 b Beets, turnips. 173
 c Cabbage. 174
 d Miscellaneous. 175
 136. Burdick, J. L., Rockford (for Stephenson Co.)
 a Tomatoes, cucumbers, melons. 172
 b Radishes. 173
 c Cabbage. 174
 d Miscellaneous. 175
 137. Burdick, W. A., Winnebago.
 a Squashes, pumpkins, melons, etc. 172
 b Radishes. 173
 c Asparagus, rhubarb, cabbage. 174
 138. Butler, J. J., Eldorado. Beans, peas, etc. Dept. A 172

DEPARTMENT B.—HORTICULTURE.

- | | | | |
|---|-------------|---|-------------|
| 139. Chester, T. P., Champaign. | | <i>c</i> Asparagus, cabbage, etc. | 174 |
| <i>a</i> Beans, peas, tomatoes, etc. | 172 | <i>d</i> Miscellaneous culinary vegetables. | 175 |
| <i>b</i> Beets, turnips, potatoes, etc. | 173 | | |
| <i>c</i> Cabbage, lettuce. | 174 | 152. Massac County Fruit Growers' Ass'n, | |
| <i>d</i> Miscellaneous. | 175 | Metropolis. | |
| 140. Clark, Mrs., Dayesville. | | <i>a</i> Beans, peas, peppers. | 172 |
| <i>a</i> Potatoes. | Dept. A 172 | <i>b</i> Beets, turnips, potatoes, etc. | 173 |
| <i>b</i> Carrots. | 173 | <i>c</i> Miscellaneous. | Dept. A 175 |
| 141. Edmonds, H. P., Taylor. | | 153. McHenry, J. W., Carmi. Beans, peas, | |
| <i>a</i> Beans, peas, squashes, etc. | 172 | etc. | Dept. A 172 |
| <i>b</i> Turnips, potatoes, carrots, beets. | 173 | 154. Nash, J. E., Princeton. Beans, cu- | |
| <i>c</i> Miscellaneous. | 175 | cumbers, squashes, etc. | 172 |
| 142. Ernst, A., & Co., Farmingdale. | | 155. Neeper, A., Kimmunity. Beans, peas, | |
| <i>a</i> Peas and beans. | 172 | etc. | Dept. A 172 |
| <i>b</i> Miscellaneous vegetables. | 173 | 156. Russell, A. E., Shattuc. | |
| 143. Fursman, E. S., El Paso. | | <i>a</i> Beans, peas, peppers. | 172 |
| <i>a</i> Tomatoes, melons, etc. | 172 | <i>b</i> Beets, turnips, potatoes. | 173 |
| <i>b</i> Beets, radishes. | 173 | <i>c</i> Miscellaneous. | 175 |
| <i>c</i> Asparagus. | 174 | 157. Sawyer, W. J., Belvidere. Potatoes. | 172 |
| 144. Hay, Leon, Kankakee. | | 158. Seiler, J. E., Mt. Carmel. | |
| <i>a</i> Cucumbers, pumpkins, melons. | 172 | <i>a</i> Squashes, pumpkins. | 172 |
| <i>b</i> Turnips, beets. | 173 | <i>b</i> Cabbage, etc. | 174 |
| <i>c</i> Miscellaneous. | 175 | <i>c</i> Miscellaneous. | 175 |
| 145. Helms & Ripley, Belleville. | | 159. Shedden, Robert, Pingree Grove. | |
| <i>a</i> Beans, peas, tomatoes, etc. | 172 | Beans and peas. | Dept. A 172 |
| <i>b</i> Beets, turnips, potatoes. | 173 | 160. Sibley, C. W., Pana. | |
| <i>c</i> Miscellaneous. | 175 | <i>a</i> Beans, cucumbers, etc. | 172 |
| 146. Hodge, W. H., Morris. Beans, peas, | | <i>b</i> Beets, radishes. | 173 |
| peppers, etc. | 172 | <i>c</i> Miscellaneous. | 175 |
| 147. Hooker, M. A., McLeansboro. | | 161. University of Illinois, Champaign. | |
| <i>a</i> Beans, peas, peppers, etc. | | <i>a</i> Beans, peas, peppers, etc. | 172 |
| | Dept. A 172 | <i>b</i> Beets, turnips, carrots, potatoes. | 173 |
| <i>b</i> Beets, turnips, potatoes, etc. | 173 | <i>c</i> Miscellaneous. | 175 |
| <i>c</i> Miscellaneous. | 175 | 162. Van Bel, Adam, Peoria. | |
| 148. Johns, Wm., Rockford. Miscellaneous | | <i>a</i> Peas, beans, cucumbers. | 172 |
| vegetables. | 175 | <i>b</i> Miscellaneous vegetables. | 175 |
| 149. Kimmel, W. G., Jonesboro. | | 163. Werdman, T. S., Farmer City. | |
| <i>a</i> Cucumbers, okra, melons. | 172 | <i>a</i> Beans, peas, tomatoes. | 172 |
| <i>b</i> Miscellaneous. | 175 | <i>b</i> Radishes. | 173 |
| <i>c</i> Rhubarb, asparagus. | 174 | <i>c</i> Cabbage, rhubarb. | 174 |
| 150. Knox County Agricultural Board, | | <i>d</i> Miscellaneous. | 175 |
| Knoxville. | | | |
| <i>a</i> Beets, turnips, potatoes. | 173 | | |
| <i>b</i> Cabbage. | 174 | | |
| 151. La Rosh, S. D., Pekin. | | | |
| <i>a</i> Beans, peas, tomatoes, etc. | 172 | | |
| <i>b</i> Radicaceous and tubrous vegeta- | | | |
| tables. | 173 | | |

GROUP 25.

(Location not known to editor at time of going to press.)

164. Hawley, Mary A., Dixon, Ill. Appa-
ratus for applying insecticides. 186

KENTUCKY.

GROUP 20—C-57.

- | | | | |
|---|-----|--|-----|
| 1. Barber, Thomas K., Pewee Valley. | | 11. Harding, A. V., Worthington. Grapes. | 122 |
| Grapes. | 122 | 12. Head, J. M., La Grange. Grapes. | 122 |
| 2. Bursat, L. A., Brownsborough. | | 13. Hite, Thos., Worthington. Grapes. | 122 |
| Grapes. | 122 | 14. Hudson, F. H., Worthington. Grapes. | 122 |
| 3. Campbell, Robert, Beard. Grapes. | 122 | | |
| 4. Clan, A. E., Pewee Valley. Grapes. | 122 | 15. Jungbluth, Karl, Beard. Grapes. | 122 |
| 5. Claxton, J. R., Worthington. Grapes. | 122 | 16. Kemp, W. J., Brownsborough. | |
| | 122 | Grapes. | 122 |
| 6. Crump, D. M., Beard. Grapes. | 122 | 17. McWilliams, J. E., Worthington. | |
| 7. Earvirt, Henry, Worthington. Grapes. | 122 | Grapes. | 122 |
| | 122 | 18. McNamara, H. C., Beard. Grapes. | 122 |
| 8. Goins, John, Worthington. Grapes. | 122 | | |
| 9. Gowing, Jacob, Pewee Valley. | | 19. Metter, R. L., Buckews. Grapes. | 122 |
| Grapes. | 122 | | |
| 10. Gowing, Lemuel, Pewee Valley. | | 20. Milton, J. M., Brownsborough. | |
| Grapes. | 122 | Grapes. | 122 |

UNITED STATES.

21. Mount, Joseph R., La Grange. Grapes. 122
 22. Reddish, D. H., Pewee Valley. Grapes. 122
 23. Sincoe, Wayne, Lakeland. Grapes. 122
 24. Speer, J. H., Brownsborough. Grapes. 122
 25. Williams, P. G., Worthington. Grapes. 122
 26. Yager, E. T., La Grange. Grapes. 122

GROUP 21.

27. Alexander, J. D., Bowling Green. Fruits. 133
 28. Ash, Thos., Hodginsville. Fruits. 133
 29. Ashby, William, Milton. Fruits. 133
 30. Barrell, S. F., Brooks. Fruits. 133
 31. Barton, Trueman, Columbus. Fruits. 133
 32. Bectal, Henry, Barrellton. Fruits. 133
 33. Beeler, I. D., Hardinsburg. Fruits, etc. 133
 34. Berry, E. M., East View. Fruits. 133
 35. Bodkins, Dan'l, Sr., Bardwell. Fruits. 133
 36. Bodkins, Isaac, Bardwell. Fruits. 133
 37. Bohlen, John L., Elizabethtown. Fruits. 133
 38. Brashers, W. C., Bowling Green. Fruits. 133
 39. Bursat, L. A., Brownsborough. Pomaceous fruits. 133
 40. Butler, Jas., Milton. Fruits. 133
 41. Campbell, Jas. H., Mt. Pleasant. Fruits. 133
 42. Campbell, Thos. W., Clinton. Fruits, etc. 133
 43. Coffin, Hiram, Milton. Fruits. 133
 44. Collins, Alphonso, Fulton. Fruits. 133
 45. Cook, W. C., Bowling Green. Fruits. 133
 46. Downer, F. M., Bowling Green. Fruits. 133
 47. Dulaney, W. L., Bowling Green. Fruits. 133
 48. Duncan, S., Milton. Fruits. 133
 49. Elsey, Aaron, Bardwell. Fruits. 133
 50. Eskew, W. S., Cox's Creek. Fruits. 133
 51. Farnsley, A. P., Louisville. Fruits. 133
 52. Freeman, L. A., Ekron. Fruits. 133
 53. Funk, A. E., Brooks. Fruits. 133
 54. Garr, S. L., Anchorage. Fruits. 133
 55. George, Henry, Wingo. Fruits. 133
 56. Giddings, Robt., Bedford. Fruits. 133
 57. Goodin, W. H., Hodginsville. Fruits. 133
 58. Gowing, Lemuel, Pewee Valley. Pomaceous fruits. 133
 59. Grant, Wm., Cox's Creek. Fruits. 133
 60. Griffey, Richard, Moscow. Fruits. 133
 61. Hacket, C. C., Milton. Fruits. 133
 62. Haginbuck, I., Elizabethtown. Fruits, etc. 133
 63. Hancock, J. C., Bedford. Fruits. 133
 64. Harding, A. V., Worthington. Pomaceous fruits. 133
 65. Hawes, J. C., Fern Creek. Fruits. 133
 66. Hess, I. H., Columbus. Fruits. 133
 67. Holmes, T. A., Bedford. Fruits. 133
 68. Hite, Thos., Worthington. Pomaceous fruits. 133
 69. Hubbard, John, Hodginsville. Fruits. 133
 70. Johnson, D. M., Clinton. Fruits, etc. 133
 71. Johnson, M. G., Fern Creek. Fruits, etc. 133
 72. Jungbluth, Karl, Beard. Pomaceous fruits. 133
 73. Kendle, Geo. T., Crutchfield. Fruits, etc. 133
 74. Lewis, J. C., Tip-Top. Fruits. 133
 75. Logan, C. K., Bedford. Fruits. 133
 76. Lovelace, I. H., Bardwell. Fruits. 133
 77. Lynch, Joseph, Bedford. Fruits. 133
 78. Moon, Jas. L., Mt. Pleasant. Fruits. 133
 79. Moseley, W. H., Bedford. Fruits. 133
 80. Neeley, J. W., Wingo. Fruits. 133
 81. Nichols, Lem. W., Cupio. Fruits. 133
 82. Ogden, Joseph, Mt. Pleasant. Fruits. 133
 83. Overall, Asa, Cox's Creek. Fruits. 133
 84. Paine, John, Fulton. Fruits. 133
 85. Payne, J. J., Warsaw. Fruits. 133
 86. Peck, D. C., Milton. Fruits. 133
 87. Quick, J. E., Brooks. Fruits. 133
 88. Reiley, G. W., Flemingsburg. Fruits. 133
 89. Rice, Sam'l H., Clinton. Fruits, etc. 133
 90. Richardson, Gus. W., Ekron. Fruits. 133
 91. Ryan, Wm., Jeffersontown. Fruits, etc. 133
 92. Samuels, Henry, Barrellton. Fruits. 133
 93. Samuels, J. C., Deatsville. Fruits. 133
 94. Samuels, W. M., Clinton. Fruits, etc. 133
 95. Seaboldt, John M., Jeffersontown. Fruits. 133
 96. Shonston, Mrs. Mary, Elizabethtown. Fruits. 133
 97. Snyder, Jas. O., Milton. Fruits. 133
 98. Spreln, W. F., Milton. Fruits. 133
 99. Sproat, Thomas, Columbus. Fruits. 133
 100. Stallard, L., Woodburn. Fruits. 133
 101. Strong, James, Fern Creek. Fruits. 133
 102. Sweeney, Edwin, Jeffersontown. Fruits. 133
 103. Talbott, David L., Elizabethtown. Fruits. 133
 104. Talbott, Jas. L., Elizabethtown. Fruits. 133
 105. Taylor, William F., Columbus. Fruits. 133
 106. Trout, A. J., Milton. Fruits. 133
 107. Trout, J. A., Bedford. Fruits. 133
 108. Voires, Burr H., Mt. Pleasant. Fruits. 133

DEPARTMENT B.—HORTICULTURE.

109. Webb, A. D., Bowling Green. Fruits. 133
 110. Wells, H. K., Millwood. Fruits. 133
 111. Withers, D. B., Muldrough. Fruits. 133
 112. Wynand, John, Jeffersontown. Fruits. 133

GROUP 25.—Nursery.

113. Samuels, W. M., Clinton.
 a Ornamental trees, etc. 185
 b Fruit trees. 186
 c Nursery trade, etc. 187

MISSOURI.

GROUP 20.

1. Geiger, Lawrence, St. Louis. Grapes. 122
 2. Miller, Henry, Carthage. Grapes. 122
 3. Nolpe, Nicol, St. Louis. Grapes. 122
 4. Shepard, Geo. H., Lamont. Grapes. 122
 5. Wormbrandt, A., Oakville. Grapes. 122

GROUP 2

- 6 Ames, J., Carthage. Gooseberries and raspberries. 136
 7. Amsden, L. C., Carthage. Peaches. 133
 8. Andrews, S. J., Lexington. Cherries. 133
 9. Blake, Gilbert, St. Joseph. Blackberries. 136
 10. Blank, Dr., St. Louis. Plums. 133
 11. Brewster, J. W., St. Louis. Quinces. 133
 12. Burg, Mrs., Oakville. Plums. 133
 13. Carpenter, Dan, Carthage. Gooseberries. 136
 14. Cressding, John, Oakville. Peaches. 133
 15. Dreceilus, Henry, St. Louis. Peaches. 133
 16. Evans, J. C., Harlem. Gooseberries and currants. 136
 17. Evans, Jos. L., St. Louis. Crab apples. 133
 18. Finn, Perry, Carthage. Blackberries. 136
 19. Gano, F. G., Parkville. Pears. 133
 20. Geiger, Joseph, St. Louis. Gooseberries, currants and raspberries. 136
 21. Geiger, Lawrence, St. Louis. Cherries, apricots and pears. 133
 22. Goodman, L. A., Westport. Plums and cherries. 133
 23. Hall, Bennett, Carthage. Pears. 133
 24. Hearn, J. W., Ferguson. Apricots and nectarines. 133
 25. Ireland, B. R., Harlem. Gooseberries and currants. 136
 26. Kibler, A., Carthage. Blackberries. 136
 27. Lins, Ocor, St. Louis. Apples. 133
 28. Long, E. P., St. Louis. Pears. 133
 29. Luther, Wm., Jr., St. Louis. Plums. 133
 30. Luther, Wm., Oakville. Peaches. 133
 31. Maddinger, Jacob, St. Joseph. Currants and gooseberries. 136
 32. Miller, Henry, Carthage. Pears. 133
 33. Miller, Samuel, Blufton. Plums. 133
 34. Missouri Botanical Garden, St. Louis. Pears. 133
 35. Moro, John, St. Louis. Pears. 133

36. Mueller, Geo., St. Louis. Pears. 133
 37. Murry, N. H., Oregon. Cherries. 133
 38. Nolke, Peter, Oakville. Nectarines. 133
 39. Olden Fruit Co., Olden.
 a Plums. C-60 133
 b Raspberries and blackberries. 136
 40. Pisper, Wm., Oakville. Pears. 133
 41. Penn, Farris, St. Louis. Apples. 133
 42. Roswag, J. E., St. Louis. Quinces. 133
 43. Russell, Z. T., Carthage. Strawberries and raspberries. 136
 44. Severs, Aug., Jennings Station. Pears. 133
 45. Shepard, Geo. H., Lamont. Apples. 133
 46. Sommers, N., St. Joseph. Currants and gooseberries. 136
 47. Speece, B. W., Carthage. Strawberries. 136
 48. Standt, Jacob, St. Louis. Pears. 133
 49. Stoke, Jacob, St. Louis. Peaches and pears. 133
 50. Studt, Jacob, St. Louis. Plums. 133
 51. Suter, W. C., Oakville. Plums. 133
 52. Theis, Henry, St. Louis. Raspberries. 136
 53. Thurman, Dr., Fenton. Plums. 133
 54. Weber, J., & Son, St. Louis. Peaches. 133
 55. Wilde, J. B., & Bro., Sarcoxie. Strawberries and raspberries. 136
 56. Winhien, Wm., Oakville. Pears. 133

GROUP 23.

57. Ames, Y., Carthage. Peas. 172
 58. Burkhart, Aug., Oakville. Beans. 172
 59. Finley, Thos., St. Louis. Tomatoes. 172
 60. Geiger, Jno., St. Louis. Turnips. 173
 61. Miller, Henry, Carthage. Beans. 172
 62. Missouri Botanical Garden, St. Louis. Peppers. 172
 63. Nolke, Nick, St. Louis. Cucumbers and tomatoes. 172
 64. Nolpe, Nicol, St. Louis. Tomatoes. 172
 65. Olden Fruit Co., Olden. Potatoes. 173
 66. Phister, Mrs., St. Louis. Beans. 172
 67. Schulenberg, Aug., Oakville. Cucumbers. 172
 68. Stoke, Jacob, St. Louis. Corn and peas. 172
 69. Stoke, Jacob, St. Louis.
 a Squash, cantaloupe and beans. 172
 b Parsnips and radishes. 173
 c Cabbage, asparagus and celery. 173
 70. Severs, Aug., Jennings Station.
 a Cucumbers. 172
 b Carrots and beets. 173
 71. Vantainge, Fred., Oakville. Beans. 172

NEW YORK.

GROUP 20.

1. **Atwater, Armstrong & Clark, Rochester.** Fruit crate. Gal. 71-L 125
2. **Baldrige, C. J., Kendia.** Unfermented white wine. D-9 126
3. **Crescent Wine Co., Hammondsport.**
 - a White wines. Gal. D-9 126
 - b Red wines. 127
 - c Port, sherry and sweet Catawba. 128
 - d Brandy. L-3 131
4. **Dewey, H. T., & Sons, New York.**
 - a White wines. L-8 126
 - b Red wines. 127
 - c Sweet wines. 128
5. **Emerson, J. M., & Sons, New York.**
 - a White wines. L-4 126
 - b Red wines. 127
 - c Port, etc. 128
 - d Champagne. 129
 - e Fruit brandies. 131
6. **Empire State Wine Co., Penn Yan.**
 - a White wines. Gal. D-9 126
 - b Red wines. 127
 - c Port and sweet wines. 128
7. **Feltzer, J. P., Rochester.** Grape and cider brandy. L-3 131
8. **Fuller & Skinner, Portland.**
 - a White wines. Gal. D-9 126
 - b Red wines. 127
 - c Port, etc. 128
 - d Brandy. L-3 131
9. **Garlock, P., & Sons, Phelps.** Cider brandy. L-3 131
10. **Germania Wine Co., Hammondsport.**
 - a White wines. D-9 126
 - b Red wines. 127
 - c Champagnes. L-3 129
 - d Catawba brandy. 131
11. **Gleason, W. B., Westfield.** Unfermented red wines. D-9 127
12. **Hammondsport Wine Co., Hammondsport.**
 - a White wines. L-3 126
 - b Red wines. 127
 - c Sherries, Madeira, port, etc. 128
 - d Champagne. 129
 - e Brandy. 131
13. **Hammondsport Vintage Co., Penn Yan.**
 - a White wines. D-9 gal. 126
 - b Red wines. 127
 - c Sweet wines. 128
14. **Hauser, Christian, Rochester.**
 - a White wines. 126
 - b Red wines. D-9 127
 - c Champagnes. L-3 129
15. **Helvetia Wine Co., Keuka.**
 - a White wines. D-9 gal. 126
 - b Red wines. 127
 - c Sweet wines. 128
16. **Henderson, Hiram T., Himrods.**
 - a White wines. D-9 126
 - b Sherry and sweet Catawba. 128
17. **Irondequoit Wine Co., Rochester.**
 - a Red wines. D-9 127
 - b Port, sherry and catawba. 128
 - c Brandy. L-3 131
18. **Lake Keuka Wine Co., Hammondsport.**
 - a White wines. D-9 gal. 126
 - b Red wines. 127
 - c Sweet wines. 128
 - d Champagne. 129
 - e Brandy. 131
19. **Maxfield, D. H., Naples.**
 - a White wines. D-9 126
 - b Red wines. 127
 - c Port, etc. 128
20. **McMath & Morgan, Penn Yan.** Grape baskets. 71-L 125
21. **Miller, George, Bristol Springs.** Port and sweet Catawba. D-9 128
22. **Palmer & Co., Albion.** Cider brandy. L-3 131
24. **Pratt, Seneca L., Penn Yan.** Fruit baskets. 71-L 125
25. **Rochester Radiator Co., Rochester.** Wire hook for vines. D-9 125
26. **Ryckman, G. E., Brocton.**
 - a Vine fastener. D-9 125
 - b Brandy. L-3 131
27. **Sammons, Warren, Rosendale.** Cider brandy. L-3 131
28. **Sayer, J. L., & Son, Warwick.** Cider brandy. L-3 131
29. **Shafer, D. A., Montgomery.** Cider brandy. L-3 131
30. **Sherman & Brown, North Collins.** Fruit baskets. 71-L 125
31. **Smith, E. Ashley, Lockport.** Unfermented white wine. D-9 126
32. **Smith, W. M., Bath.** Cider brandy. L-3 131
33. **Smith, Wing R., Syracuse.**
 - a Elder blow wine. D-9 126
 - b Rhubarb wine. 127
34. **Snow, G. C., Penn Yan.**
 - a Grapes for table. 18-B 122
 - b Grapes for wine-making. 123
35. **State of New York.**
 - a Photographs, vines and grapes. D-9 119
 - b Trellis. 120
 - c Literature, history and statistics of viticulture. D-9 132
36. **Thompson, Joseph T., Oneida.** Raspberry wine. D-9 127
37. **Urbana Wine Co., Hammondsport.**
 - a Grapes for wine making. Loc. L-3 123
 - b White wines. 126
 - c Red wines. 127
 - d Sweet wines. 128
 - e Champagnes. 129
 - f Brandy. 131
38. **Wagener, Chas., Pulteney.**
 - a Grape stock. D-9 121
 - b Grafting saw. 125

DEPARTMENT B.—HORTICULTURE.

39. Wisner, Chas. E., Warwick. Cider
brandy. L-3 131
40. Wolf, Franz S., Bath.
a White wines. D-9 126
b Red wines. 127
c Port and sherry. 128

GROUP 21.

41. New York State Commission, Albany.
a Pomaceous and stone fruits. C-17 133
b Small fruits. 136
c Nuts. 137
d Casts and models of fruits. 138
e Dried and evaporated fruits. I-73 139
f Fruits in glass or cans. 140

- g Jellies, jams and marmalades. 141
h Expressed juices of berries, etc. 143
i Methods of preserving fruits. 145
j Literature and statistics. 146

GROUP 23.

42. New York State Commission, Albany.
a Cabbage, lettuce, asparagus, etc.
P & Q-77 174
b Miscellaneous culinary vegetables. 175
c Dried vegetables. 176
d Pickles, chutney, mustard, etc. 177
e Methods of preserving. 178

NORTH CAROLINA.

GROUP 21.

1. Abram, Miss F., Rocky Mountain.
a Preserved fruits. 140
b Fruit jellies. 141
2. Allison, Mrs. T. J., Statesville. Apple
jelly. 141
3. Bishop, Mrs. O. H., Woodside.
a Preserved fruits. 140
b Fruit jellies. 141
4. Bradshaw, Mrs. D. C., Russell. Fruit
jellies. 141
5. Brown, Mrs. C. C., Wilmington. Pre-
served fruits. 140
6. Brown, Mrs. W. T., Murfreesboro. Fruit
jellies. 141
7. Cowles, H. C., Statesville. Apple
jelly. 141
8. Drake, Mrs. M. J., Statesville. Pre-
served citron. 140
9. Freeman, Mrs. W. G., Murfreesboro.
a Preserved fruits. 140
b Apple jelly. 141
10. Gibson, Mrs. Robert, Concord.
a Preserved fruits. 140
b Fruit jellies. 141
11. Gordon, Miss A., Morganton.
a Preserved fruits. 140
b Fruit jellies. 141
12. Hall, Miss J. B., Red Springs.
a Preserved fruits. 140
b Apple jelly. 141
13. Harrell, Mrs. J. N., Murfreesboro.
a Preserved fruits. 140
b Fruit jellies. 141
14. Harrell, Mrs. L., Statesville.
a Preserved citron. 140
b Apple jelly. 141
15. Harris, Mrs. J. W., Rutherfordton.
Fruit jellies. 141
16. Hattom, Mrs. R. J., Salisbury. Fruit
jellies. 141
17. Josey, Mrs. A. E., Salisbury. Fruit
jellies. 141
18. Lewis, Mrs. G. W., Statesville. Pre-
served peaches. 140
19. Miller, Miss L. L., Goldsboro.
a Preserved fruits. 140
b Fruit jellies. 141
20. Monk, Mrs. H. C., Hobton. Preserved
grapes. 140

21. Morris, Mrs. H., Tarboro. Preserved
fruits. 140
22. Parker, Mrs. H. N., Raleigh.
a Preserved fruits. 140
b Fruit jellies. 141
23. Robinson, Mrs. Jno., Raleigh.
a Preserved crabapples. 140
b Fruit jellies. 141
24. Sasser, Mrs. J. H., Greenleaf. Fruit
jellies. 141
25. Smith, Mrs. J. M., Fayetteville. Pre-
served grapes. 140
26. Smith, Mrs. P. P., Wakulla.
a Preserved quinces. 140
b Fruit jellies. 141
27. Stevens, Mrs. W. E., Clinton.
a Preserved fruits. 140
b Fruit jellies. 141
28. Watson, Mrs. T. B., Ridgeway. Pre-
served fruits. 140
29. Watson, Mrs. Wm., Warrenton.
a Preserved fruits. 140
b Fruit jellies. 141
30. West, Mrs. Jas., Raleigh. Fruit
jellies. 141
31. Worth, Mrs. J. M., Fayetteville.
a Preserved fruits. 140
b Fruit jellies. 141

GROUP 23.

32. Abram, Miss F., Rocky Mountain.
Pickles. 177
33. Bishop, Mrs. O. H., Woodside.
Pickles and sauces. 177
34. Bradshaw, Mrs. D. C., Russell.
Pickles. 177
35. Brown, Mrs. C. C., Wilmington.
Pickles and catsup. 177
36. Freeman, Mrs. W. G., Murfreesboro.
Pickles. 177
37. Hall, Miss J. B., Red Springs.
Pickles. 177
38. Hatton, Mrs. R. J., Salisbury. Pickles.
177
39. Robinson, Mrs. Jno., Raleigh. Pickles.
177
40. Smith, Mrs. P. P., Wakulla. Pickles.
177
41. Stevens, Mrs. W. E., Clinton.
Pickles. 177
42. Watson, Mrs. T. B., Ridgeway.
Pickles. 177
43. Worth, Mrs. J. H., Fayetteville.
Pickles and sauces. 177

AUSTRIA.

GROUP 20.

1. Faseth, Johann, Voeslau (Lower Austria). Wines. 126
2. Leuchtmann, T., Vienna. Wines. 126
3. Littke, L., Fuenfkirchen (Hungary). Wines. 126
4. Masek, A., Klattan (Bohemia). Capsules for wine bottles. 130
5. Pollak, Emanuel, & Sohn, Vienna. Wines. 126
6. Reichenbach, Lessonitz, Graf, Weinkellerei, Bisenz (Moravia). Wines. 126

7. Sajowitz, Michael, Graz. Wines. 126
8. Stalehner Gebruder, Vienna. Wines. 126
9. Stoll, K., Prag. Wines. 126

GROUP 21.

10. Antichievich, Giovanni, Postiv (Dalmatia). Dried fruits. 139

GROUP 22.

11. Kauder, Josef, Horaschdiowitz (Bohemia). Rose bushes. 147

BELGIUM.

GROUP 20.

1. Cambier, G., Brussels. Champagne. 129
2. Colliard-Peant, J., Brussels. Wine labels. 130
3. Glorieux, Emile, Brussels. Champagne. 129

GROUP 22.

4. Revu de l'Horticulture, Gand. Chromolithographic plates of flowers. 171

GROUP 26

5. Verheyden, Jean-Baptiste, Brussels. Furniture for conservatories and verandas. 190

CANADA.

GROUP 20.

1. Girardot, Ernest, & Co., Sandwich, Ont. Canadian wines. 127
2. Hamilton, J. S., & Co., Brantford, Ont. Grape wines. 126
3. Turpel, James J., Halifax, N. S. Rhubarb wine. 126

GROUP 21.

4. Department of Agriculture (Experimental Farm), Ottawa. Fruits. 133
5. Fruit Growers' Association of Nova Scotia, Wolfville.
 - a Large fruits. 133
 - b Small fruits. 136
6. Provincial Government of British Columbia, Victoria. Fruits. 133
7. Provincial Government of Northwest Territories, Regina. Fruits. 133
8. Provincial Government of Ontario, Toronto. Fruits. 133
9. Provincial Government of Prince Edward Island, Charlottetown. Fruits. 133
10. Provincial Government of Quebec, Quebec. Fruits. 133
11. Weaver, Mrs. Wm., Chatham, Ont. Canned fruit. 140

GROUP 22.

12. Asylum, Toronto. Palm. 159
13. Calder, J. A., Moose Jaw, N. W. T. Pressed prairie flowers. 167
14. Central Prison, Toronto.
 - a Perennials and flowering shrubs. 157
 - b Palms. 159
 - c Ornamental leaf plants. 161
 - d Cactaceæ. 162
15. Exhibition Park, Toronto.
 - a Palms. 159
 - b Ornamental leaf plants. 161
16. Government House, Toronto.
 - a Palms. 159
 - b Ornamental leaf plants. 161
 - c Cacti. 162
17. Horticultural Gardens, Toronto.
 - a Perennials and flowering shrubs. 157
 - b Palms. 159
 - c Cacti. 162
18. Hoskins, John, Toronto.
 - a Perennials and flowering shrubs. 157
 - b Palms. 159
 - c Cacti. 162
19. MacDonald, John, Toronto. Ornamental flowering plants. 159

DEPARTMENT B.—HORTICULTURE.

20. McPherson, D. S., Toronto.
a Flowering annuals 155
b Climbing plants. 156
c Perennials and flowering shrubs. 157
d Palms. 159
e Cacti. 162
21. Normal Schools, Toronto.
a Perennials and flowering plants. 157
b Palms. 159
c Ornamental leaf plants. 161
d Cacti. 162
22. Waterworks Reservoir, Toronto.
a Perennials and flowering shrubs. 157
b Palms. 159
c Ornamental leaf plants. 161

GROUP 23.

23. Department of Agriculture (Experimental Farm), Ottawa. Vegetables. 174
24. Fruit Growers' Association of Nova Scotia, Wolfville. Vegetables. 174
25. Provincial Government of British Columbia, Victoria. Vegetables. 174
26. Provincial Government of Northwest Territories, Regina. Vegetables. 174

27. Provincial Government of Ontario, Toronto. Vegetables. 174
28. Provincial Government of Prince Edward Island, Charlottetown. Vegetables. 174
29. Provincial Government of Quebec, Quebec. Vegetables. 174
30. Tinling, Mrs. E. J., Winnipeg, Man. Pickles. 177
31. Weaver, Mrs. Wm., Chatham, Ont. Pickles. 177

GROUP 25.

32. Department of Agriculture (Central Experimental Farm), Ottawa. Ornamental trees and shrubs. 185
33. Provincial Government of Ontario, Toronto. Ornamental trees and shrubs. 185

GROUP 26.

34. Phillips, W. F., Sarnia, Ont. Lawn swings. C-78 190

CEYLON.

GROUP 24.

1. Ceylon Commission. Seeds. 179

DENMARK.

GROUP 21.

1. Petersen, Jacob, Copenhagen, Fruit-wines. Dept. A 143

GROUP 23.

2. Holmblad & Co's Succrs., Copenhagen. Mustard. Dept. A 177

GROUP 24.

3. Jensen, N., Frederikssund, Sealand. Cauliflower seeds. 179

GERMANY.

GROUP 20.

1. Avenarius Bros., Gauaelgesheim-Hessia. Wine. 126
2. Bach, S., Neustadt—a-d-Hardt. Wine. 126
3. Bachem & Fanter, Hochheim-on-the-Main. Sparkling wine. 29
4. Balbach, Sebastian, jun., Nierstein-on-the-Rhine. Wine. 126
5. Balz, Wilhelm, Flachheim-Hessia. Wine. 126
6. Altenkirch, Friedrich, Borch-on-the-Rhine. Wine. 126
7. Amblard, Désiré, Borry-Mar-Digny-Lorraine. Wine. 126
8. Anderson, Georg, Frankfort-on-the-Main. Wine. 126

9. Anhaeuser & Fehrs, Kreuznach, a-d-N. Wine. 126
10. Augstein, Josef, Bingen-on-the-Rhine. Wine. 126
11. Acker, Carl, Wiesbaden. Wine. 126
12. Actiengesellschaft vorm Burgeff & Co., Hochheim-on-the-Main. Sparkling wine. 129
13. Abel, von, Wine, Gross und Klein-Heppach-on-the-Neckar. Wine. 126
14. Albrecht, Heinrich, Heilbronn-on-the-Neckar. Wine. 126
15. Alten Kirch, Bros., Borch-on-the-Rhine. Wine. 126
16. Becker, Heinrich, Tusheim, Rhein-pfalz. Wine. 126
17. Becker, V., Hahnheim and Zornheim-Hessia. Wine. 126

GERMANY.

18. Beckerath, Leon von, Rudesheim-on-the-Rhine. Wine. 126
19. Bender, Hermann, Voellendoer-on-the-Rhine. Wine. 126
20. Berna, Lucas, Winzenheim-Alsace. Wine. 126
21. Bentz, C. & Co., Traben-on-the-Moselle. Wine. 126
22. Bretz, Ludwig, Welgesheim-Hessia. Wine. 126
23. Birgy, Joh. Bapt., Winzenheim-Alsace. Wine. 126
24. Bittong, Carl, Nierstein-on-the-Rhine. Wine. 126
25. Blankenhorn, Fritz, Schliengen-Wurtemberg. Wine. 126
26. Boehm, G. B., Oberlahnstein. Wine. 126
27. Bœmper-Schmitt, G., Nierstein-on-the-Rhine. Wine. 126
28. Bollinger, A., Ingweiler-Alsace. Wine. 126
29. Bomgenbach, J. & Sons, Worms. Wine. 126
30. Bomguth, Franz Wilh., Traben-on-the-Moselle. Wine. 126
31. Bott, Friedr., jun., Rappoltsweiler-Alsace. Wine. 126
32. Bott, Gaston, Rappoltsweiler-Alsace. Wine. 126
33. Botz, Albert, Frankfort-on-the-Main. Wine. 126
34. Bougot, Camillus, Arry-Lorraine. Wine. 126
35. Buerklin-Wolf'sche, Gutsverwaltung Wachenheim-a-d-H. Wine. 126
36. Buerger spital zum hl. Geist, Wuerzburg. Wine. 126
37. Buhl, F. P., Deidesheim. Wine. 126
38. Burgeff, Joh., Geisenheim-on-the-Rhine. Wine. 126
39. Busch, Anton, Mayence-Castel. Wine. 126
40. Buschmann, Anton, Kiedrich Rhingau. Wine. 126
41. Choisi, J. R., Borch-on-the-Rhine. Wine. 126
42. Clairret-Kelterei, Montigny-Lorraine. Wine. 126
43. Comte, Viktor, Vic a Seille-Lorraine. Wine. 126
44. Compte, Prosper, Vic a Seille-Lorraine. Wine. 126
45. Colin, Vic a Seille-Lorraine. Wine. 126
46. Dachmen, Heinrich, Cologne. Wine. 126
47. Dahlen-Goeddertz, Borch-on-the-Rhine. Wine. 126
48. Dahlen, Heinr. Jos., Borch-on-the-Rhine. Wine. 126
49. Deinhard & Co., Coblenz-on-the-Rhine.
 - a Wine. 126
 - b Sparkling wine. 129
50. Dern, J. P., Bingen-on-the-Rhine. Wine. 126
51. Deister, Friedrich, Gauaelgesheim-Hessia. Wine. 126
52. Diehl, Carl, Heinrich & Co., Mayence. Wine. 126
53. Diltthey, Sahl & Co., Ruedesheim-on-the-Rhine. Wine. 126
54. Dochtermann, Carl, Lauffen on the Neckar. Wine. 126
55. Dolles, Josef, Bodenheim-Hessia. Wine. 126
56. Domkapitel, Trier. Wine. 126
57. Durlacher, B., Bingen-on-the-Rhine. Wine. 126
58. Eckardt, C. F., Kreuznach-a-d-N. Wine. 126
59. Eckel Bros., Deidesheim. Wine. 126
60. Eckerle, F., Frankweiler. Wine. 126
61. Edward, G., & Cons., Vic a Seille-Lorraine. Wine. 126
62. Ehrhardt, Josef, Rudesheim-on-the-Rhine. Wine. 126
63. Eibach, P., Arnsheim, Hessia. Wine. 126
64. Engelsmann, Ed., & J. B., Kreuznach-a-d-N. Wine. 126
65. Engelsmann & Werren, Kreuznach-a-d-N. Wine. 126
66. Eulberg, Peter, Assmannshausen. Wine. 126
67. Ewald & Co., Rudesheim-on-the-Rhine. Sparkling wine. 129
68. Eymael, Jean, Moenchhof, near Uerzig. Wine. 126
69. Falck, Josef, Mayence. Wine. 126
70. Feiss, Ludwig, Mussbach-a-d-Hardt. Wine. 126
71. Feist Bros., & Sons, Frankfort-on-the-Main.
 - a Wine. 126
 - b Sparkling wine. 129
72. Feist & Reinach, Bingen-on-the-Rhine. Wine. 126
73. Fendel, Heinr. Josef, Borch-on-the-Rhine. Wine. 126
74. Feser, Heinrich, Anton, Gauaelgesheim-Hessia. Wine. 126
75. Feyen & Schmitt, Bingen-on-the-Rhine. Wine. 126
76. Finck-Haffner, Mayence. Wine. 126
77. Fromm, J., Frankfort-on-the-Main. Sparkling wine. 129
78. Friz, E., Fellbach, Wurttemberg. Wine. 126
79. Frowein'sche, Aug., Gutsverwaltung, Oppenheim. Wine. 126
80. Fuchs, A., Dattenberg, near Linz-on-the-Rhine. Wine. 126
81. Fuerstl, Standesherrschaft, Hohenlohe. Oehringen, Oehringen, Wurttemberg. Wine. 126
82. Gartner, Philipp, Nierstein-on-the-Rhine. Wine. 126
83. Gerdolle, H., Arry-Lorraine. Wine. 126
84. Gilmer, J., Lauffen-on-the-Neckar. Wine. 126
85. Goebel, Ad. Sons, Bingen-on the Rhine. Wine. 126
86. Grach, Joseph, Wm., Trier. Wine. 126
87. Graef, v. Kesselstadt'sches Majorat, Trier. Wine. 126
88. Graff, Oskar, Traben-on the Mosell. Wine. 126
89. Greiner, David, Mittelweiler-Alsace. Wine. 126
90. Gruen, Johannes, Winkel-on-the-Rhine. Wine. 126
91. Guirsch, Gabriel, Noveant-Lorraine. Wine. 126
92. Guitmann, Aug., Geisenheim-on-the-Rhine. Wine. 126

DEPARTMENT B.—HORTICULTURE.

93. Guntrum, Louis, Bensheim-Hessia. Wine. 126
94. Gutsverwaltung Salival, Salival-Lorraine. Wine. 126
95. Gymnasial-Verwaltungsfond, Trier. Wine. 126
96. Haas-Brunner, J., Neckarsulm-Wurtemberg. Wine. 126
97. Haeusser, Heinrich, Weissenburg-Alsace. Wine. 126
98. Hauser, H.A., Wolfenweiler-Wurtemberg. Wine. 126
99. Hartung, John, Neustadt, a-d-Hardt. Wine. 126
100. Haussmann, Heinrich, Berlin. Wine. 126
101. Haussmann, jun., Traben-on-the-Mosell. Wine. 126
102. Haussmann, Oskar, Traben-on-the-Mosell. Wine. 126
103. Haussmann, Wilh., Traben-on-the-Mosell. Wine. 126
104. Henkell & Co., Mayence and Laubenheim.
 a Wine. 126
 b Sparkling wine. 129
105. Herber, Adam, Winkel-on-the-Rhine. Wine. 126
106. Herzog, Philipp, Oppenheim. Wine. 126
107. Heuser, Rob, Traben-on-the-Mosell. Wine. 126
108. Heymann Bros., Wiesbaden. Wine. 126
109. Hoch, Carl Josef, Neustadt, a-d-H. Wine. 126
110. Hoehl Bros., Geisenheim-on-the-Rhine. Sparkling wine. 129
111. Hgl. Hofkellerei, Wuerzburg. Wine. 126
112. Holler, Hermann & Avenarius, Coblenz-on-the-Rhine. Wine. 126
113. Hommel, Carl, Rappoltsweiler-Alsace.
 a Wine. 126
 b Sparkling wine. 129
114. Horbach & Glade, Niederlahnstein. Sparkling wine. 129
115. Huesgen, Adolf, Traben-on-the-Mosell. Wine. 126
116. Huesgen, J. W., Traben-on-the-Mosell.
 a Wine. 126
 b Sparkling wine. 129
117. Huber & Messner, Passau. Wine. 126
118. Hummel, H. J., Hochheim-on-the-Main. Wine. 126
119. Jann, Franz, Sons, Geisenheim-on-the-Rhine. Wine. 126
120. Jaquinot, Baron, Arry-Lorraine. Wine. 126
121. Jordan, L. A., Deidesheim. Wine. 126
122. Julius Hospital, Wuerzburg. Wine. 126
123. Jung, Bros., Ruedesheim-on-the-Rhine. Wine. 126
124. Jung, Joh A., Assmannshausen. Wine. 126
125. Junnich, Georg Karl, Enkirch-on-the-Mosell. Wine. 126
126. Jungkenn, Conrad, Appenheim. Wine. 126
127. Kempf, Bros., Neustadt a-d-H.
 a Wine. 126
 b Sparkling wine. 129
128. Kern, Hippolyte, Bergheim, Lorraine. Wine. 126
129. Kessler, G. C. & Co., Successor, Esslingen-on-the-Neckar. Sparkling wine. 129
130. Kessler, Ph., Gauaelgesheim, Hessia. Wine. 126
131. Klein, Johann, Johannisberg-on-the-Rhine. Wine. 126
132. Klein, Ludwig, Wachenheim a-d-H. Wine. 126
133. Kloss & Foerster, Freyburg-a-d-Unstr. Sparkling wines. 129
134. Koch, Bros., Elsheim, Hessia. Wine. 126
135. Koch, Joh-, Laubenheim, Hessia. Wine. 126
136. Koehler, Wilhelm, Flachheim, Hessia. Wine. 126
137. Korn, H. Wilh., Traben-on-the-Mosell. Wine. 126
138. Kraft, Vogt, Schallstadt, Wurtemberg. Wine. 126
139. Kraus, L., Gauaelgesheim, Hessia. Wine. 126
140. Krauss, Ernst, Duerkheim a-H. Wine. 126
141. Kreuzberg & Brogsitter, Ruedesheim-on-the-Rhine. Wine. 126
142. Kroeber, Gottfried, Vinnigen a-d-M. Wine. 126
143. Krone & Hoefer, Dresden, Loebtau. Cognac. 131
144. Kuhn, Georg, Wachenheim a-d-H. Wine. 126
145. Kuhns, L. W., Gensingen, Hessia. Wine. 126
146. Kullmann, H. J. & Co., Frankfort-on-the-Main. Wine. 126
147. Kupferberg, Chr., Adt. & Co., Mayence. Sparkling wine. 129
148. Lang, F. Joseph, Wuerzburg. Sparkling wine. 129
149. Langwerth Frhr, v. Simmern'sche Verwaltung, Eltville-on-the-Rhine. Wine. 126
150. Lebrecht, L., Sohn & Co., Mayence. Wine. 126
151. Lederhos, Ph., Sons, Oberingelheim. Wine. 126
152. Lehner, Theodor, Lauffen-on-the-Neckar. Wine. 126
153. Lembach, C., Hochheim-on-the-Main. Wine. 126
154. Levi, Heinrich, Bingen-on-the-Rhine. Wine. 126
155. Levy, Leopold, Oppenheim. Wine. 126
156. Lichtenberger & Weine, Ludwigshafen-on-the-Rhine. Wine. 126
157. Linz, Wilh., Ayl, Rheinisch Prussia. Wine. 126
158. Lintz, Jacob, Trier, Wine. 126
159. Mahler, Wilhelm, Worms. Wine. 126
160. Malten & Bomsa, Frankfort-on-the-Main. 126
161. Management of von Stumm, Haelberg's Farm, Gruenhaus-on-the-Mosell. Wine. 126
162. Marx Bros., Landau - Rheinpfalz. Wine. 126

GERMANY.

163. Marx-Schenk, L., Kempten-Hessia. Wine. 126
164. Marquardt, H. & O., Stuttgart. Wine. 126
165. Maucher, Rudolf & Wilhelm, Neustadt a-d-H. Wine. 126
166. Mayer, L., Bingen-on-the-Rhine. Wine. 126
167. Mayer, Wilhelm, Gauaelgesheim, Hessia. Wine. 126
168. Meuschel, J. W. sen., Buckbrunn, Franken. Wine. 126
169. Meuth, H. F., Edenkoben. Wine. 126
170. Meyer, Alois, Winzenheim, Alsace. Wine. 126
171. Mayer & Coblenz, Bingen-on-the-Rhine. Wine. 126
172. Meyer, M., Kreuznach a-d-N. Wine. 126
173. Meuschel, J. W., sen., Ruedesheim-on-the-Rhine. Wine. 126
174. Michel, Jacob & Co., Mayence. Wine. 126
175. Mittelstrass, Walther, Trier. Wine. 126
176. Mohr, Wilhelm, Borch-on-the-Rhine. Wine. 126
177. Molè, Julius, Vic a Seille, Lorraine. Wine. 126
178. Moos, J. F., Ruedesheim-on-the-Rhine. Wine. 126
179. Moselwein, Vertroebsgesellschaft. Trier. Wine. 126
180. Mouhel, V., Vic a Seille, Lorraine. Wine. 126
181. Mueller, Egon, Scharzhof. Wine. 126
182. Mueller, Jean, Flachheim. Hessia. Wine. 126
183. Mueller, G., Winkel-on-the-Rhine. Wine. 126
184. Municipal Administration of the City of Frankfurt, Frankfort-on-the-Main. Wine. 126
185. Nathom, Mathias, Frankfort-on-the-Main. Wine. 126
186. Nell, J. P. von, Frier. Wine. 126
187. Niederwiesen, G., Mayence. Wine. 126
188. Nourney, Friedr. Wilh., Cologne. Wine. 126
189. Oberfol, Otto, Achern. Fruit brandy. 131
190. Oppmann, J., Wuerzburg. Sparkling wine. 129
191. Orth, Friedr., Trier. Wine. 126
192. Pabstmann, J. M., Sohn, Mayence. Wine. 126
193. Pabstmann, Heinr., Hochheim-on-the-Main. Wine. 126
194. Pauli, Edwart, Oeringelheim. Wine. 126
195. Peters, Carl, Vinningen a-d-M. Wine. 126
196. Piedmont, Julius, Trier. Wine. 126
197. Pomizza, Wilhelm, Nierstein-on-the-Rhine. Wine. 126
198. Priesterseminar, Trier. Wine. 126
199. Rasch, Wilhelm, Oestrich-on-the-Rhine. Wine. 126
200. Rautenstrauch, Wilh., Karthaus-erhof, Rheinisch, Prussia. Wine. 126
201. Reifenberg & Co., Wiesbaden. Wine. 126
202. Rheinart, W., Erben, Saarburg. Wine. 126
203. Reiss, Eberhardt, Fritz, Gimmeldingen. Wine. 126
204. Reithenau, Carl von, Neudorf, Rheingau. Wine. 126
206. Reuter, August, Ruedesheim-on-the-Rhine. Wine. 126
207. Resch, Fr., Horgertham, near Passau. Plum brandy. 131
208. Richter & Co., Muehlheim-on-the-Mosell. Wine. 126
209. Roesch, S., Bingen-on-the-Rhine. Wine. 126
210. Roos, Valentine, Ruedesheim-on-the-Rhine. Wine. 126
211. Rosenstein, B., Wiesbaden. Wine. 126
212. Rothstein, S., Mainstockheim, Franken. Wine. 126
213. Rotwitt & Biegen, Oestrich-on-the-Rhine. Wine. 126
214. Ruland, Josef, Ruedesheim-on-the-Rhine. Wine. 126
215. Rumpel, C. & Co., Traben-on-the-Mosell. Wine. 126
216. Schaefer, Heinr., Wwe, Laubenheim. Wine. 126
217. Schaller, Michael, Wertheim, Baden. Plum brandy. 131
218. Schellhorn-Wallbillich, W., Forst, a-d-Hardt. Wine. 126
219. Scherer, Bernhard, Trier. Wine. 126
220. Schierlinger, Heinr., Wuerzburg. Wine. 126
221. Schlereth, A., Neustadt, a-d-H. Wine. 126
222. Schlichte, H. W., Steinhagen, Westphalia. Brandy. 131
223. Schlitz, Joh., Mayence. Wine. 126
224. Schmitz, Bros., Mayence. Wine. 126
225. Schmitt, Gebr., Voelker, Gauealgesheim, Hessia. Wine. 126
226. Schmidt & Klett, Eltville-on-the-Rhine. Wine. 126
227. Scholl & Hillebrandt, Ruedesheim-on-the-Rhine. Wine. 126
228. Schrupp, B., Assmannshausen. Wine. 126
229. Schultz, C. H., Ruedesheim-on-the-Rhine. Sparkling wine. 129
230. Schurz, J. N. & Co., Coblenz-on-the-Rhine. Wine. 126
231. Schwebe, Heinrich, Vinningen a-d-M. Wine. 126
232. Scriba, C., Flachheim-Hessia. Wine. 126
233. Sebastian, Joh. Pet., Marteshof near Trier. Wine. 126
234. Seyberlich, Alfred, Dresden. a Sugar wine. 126
b Brandy. 131
235. Seyler, Friedr., Deidesheim. Wine. 126
236. Sichel's, H., Sons, Mayence. Wine. 126
237. Simon, Scy, Lorraine. Wine. 126
- 237a. Simon, Bros., Wiesbaden. Wine. 126
238. Soehnlein & Co., Schierstein-on-the-Rhine. Sparkling wine. 129
239. Spaeth, Carl, Kreuznach a-d-N. Wine. 126
240. Spier, Ph. H., Traben-on-the-Mosell. Wine. 126

DEPARTMENT B.—HORTICULTURE.

241. Stadler, J. M., Deidesheim. Wine. 126
242. Steinheimer, C. J. B., Oestrich-on-the-Rhine. Wine. 126
243. Stockmager, Hermann, Schloss Lichtenberg-Wurtemberg. Wine. 126
244. Startz-Kuetgens, Aachen. Wine. 126
245. Stuetzle, Dr., Mergentheim, Wurtemberg. Wine. 126
246. Sturm, Joh., Baptist, Ruedesheim-on-the-Rhine. Wine. 126
247. Teutsch, Gustav, Landau, Rheinpfalz. Wine. 126
248. Thedens, H., Lauffen-on-the-Neckar. Wine. 126
249. Thonisch, Dr., Trier. Wine. 126
250. Travers, Franz, Borch-on-the-Rhine. Wine. 126
251. Uihlein & Hottenroth, Geisenheim-on-the-Rhine. Wine. 126
252. Valkenberg, Pet. Jos., Worms. Wine. 126
253. Venner, Ch., Vic a Seille-Lorraine. Wine. 126
254. Vomwolzen, Gustav, Trier. Wine. 126
255. Wagemann Bros., Wiesbaden. Wine. 126
256. Wallmacht, John, Ruedesheim-on-the-Rhine. Wine. 126
257. Wallot, W., & Sons' successor. Oppenheim. Wine. 126
258. Walther, Franz, Ortenberg-Wurtemberg. Wine. 126
259. Warth, Carl, Stuttgart. Wine. 126
260. Wasum, Wilh., Bacharach, Rheinisch Prussia. Wine. 126
261. Wehr, Aug., Traben-on-the-Mosell. Wine. 126
262. Weil, Samuel, Landau-Rheinpfalz. Wine. 126
263. Weill, Michael, Westhofen, Alsace. Wine. 126
264. Weinbauschule, Kgl., Weinsberg, Wurtemberg. Wine. 126
265. Weingaertner gesellschaft, Neckarsulm, Wurtemberg. Wine. 126
266. Weingaertner gesellschaft, Untertuerkheim, Wurtemberg. Wine. 126
267. Weingaertner gesellschaft, Heilbronn-on-the-Neckar. Wine. 126
268. Werner, A., Flachheim, Hessia. Wine. 126
269. Wernher Bros., Nierstein-on-the-Rhine. Wine. 126
270. Wertheimer, Henry, Sons, Kippenheim, Baden. Brandies. 131
271. Winter, Josef W., Rauenthal. Wine. 126
272. Witter, Eduard, Neustadt a-d-H. Wine. 126
273. Wuerttembergischer, Weinbauverein, Stuttgart. Wine. 126
274. Ziegler'scher Keller, Frhr. von, Wuerzburg. Wine. 126
277. Détért, A. H., Berlin. Currant wine and currant champagne. 143
278. Dieffenbach, J. W., Munich. Fruit juices, punch, essence. 144
279. Doeding & Son, Huchtingen. Fruit wine. 143
280. Duerfeld, Viktor, successor, Oechatz, Saxony.
a Imitation of fruits in wax. 138
b Works upon agriculture, pomology and horticulture. 146
281. Ersfeld, Peter, Hecke. Sugar pears. 133
282. Fleischmann, M. J., Aschaffenburg. Fruit wine, liquors and punch. 144
283. Foerstel, K., Jena. Fruit wine. 143
284. Fregeisen Bros., Frankfort-on-the-Main. Cider and cider champagne. 143
285. Fromm, J., Frankfort-on-the-Main. Currant wines. 143
286. Hahn, G. L., & Co., Luebeck. Canned fruits. 140
287. Hermann, A., Landau. Fruit wine. 143
288. Kienzler, Rudolph, Villingen, Baden. Fruit water. 143
289. Laaff, Wilhelm, Mayence
a Preserved fruits. 140
b Fruit syrups. 143
290. Meier, Franz, Offenburg, Baden. Schwarzwälder cherry liquor. 143
291. Nachmann, M., Sons, Rastatt. Cherry, blackberry and juniper spirits, etc. 143
292. Naegeli, W. Dr., Mombach, Mayence. Preserves. 141
293. Nassauer, H. F., Giessen. Currant wine. 143
294. Niethammer, Jean, Kaiserslautern. Cider. 143
295. Oberfoll, Otto, Achern. Cherry and plum liquor. 143
296. Pfannenstiel, & Maderholz, Regenstein. Huckleberry essence, punch and wine. 144
297. Remy & Kohlhaas, Erbach. Preserves. 141
298. Schott, Adler, Frankfort-on-the-Main. Cherry and plum waters. 143
299. Trowitzsch & Sohn, Frankfort a-d-Oder. Works of pomology and horticulture. 146
300. Wagner, Joh. Philipp & Co., Mayence. Fruit preserves. 141
301. Werder'sche Fruchtsaft, Presserci W. Huhne, Werder, Prussia. Fruit juice. 143
302. Woelzke, R., Berlin. Fruit juice. 143
- GROUP 22.**
303. Benary, Ernst, Erfurt. Illustrations of vegetables and flowers. 171
304. Beyer, Robert, Dresden. Flowers. 167
305. Botanischer Garten, kgl., Berlin. Collection of Alpine plants of Europe and Asia. 166
306. Brandt, Albert, Elbing. Flowers. 167
307. Brunner, Max, Josef, Munich. Decorations, etc. 167
308. Buechner, Aug., Munich. Begonias. 161
309. Goerms, Carl, Potsdam. Roses. 147
310. Grashoff, Martin, Guedlinburg. Flowers. Outdoor.
- GROUP 21.**
275. Blankenhorn, Herm., Mullheim, Baden. Cherry water. 144
276. Chemische Technisches und Hygienisches Inst, Frankfort. Fruit. 133

GERMANY.

311. Haagstroem, A., Wandsbeck. Flow-
ers. 147
312. Haehnel, Bernhard, Dresden. Roses. 147
313. Hamburg-Altona Vereinigte Gaert-
ner, Hamburg-Altona. Collection of com-
mercial plants. 168
314. Hartel, Oskar, Dresden. Flowers. 147
315. Haubold, Bernhard, Dresden. Roses. 147
316. Hausen, Julius, Pinneberg. Lilies of
the valley. 157
317. Jacob, Moritz, Leipsic-Gohlis.
Painting of self-raised shrubs and flowers. 171
318. Kaiser, Karl, Nordhausen. Flowers.
(Outdoor) 171
319. Kierski, Rud., Potsdam. Sketches
for landscape plants. 171
320. Knoefel Bros., Dresden. Flowers. 171
321. Koch & Rohlf, Gross Lichterfelde,
near Berlin. Flowers. 171
322. Kuehne, S., Halberstadt. Flowers. 171
323. Lambert & Reiter, Trier. Roses. 147
324. Liebig, Emil, formerly L. L. Liebig,
Dresden. Flowers. 171
325. Loak, J. F., Berlin. Decorations,
dried plants, etc. 167
326. Mietzsch, C. W., Dresden.
a Roses. 148
b Azaleas camellias. 150
327. Mock, Josef, Trier. Roses. 147
328. Mueller, T. F., Rellingen.
a Roses. 147
b Plants. 153
329. Neubert, E., Wandsbeck.
a Azaleas. 150
b Palms. 159
330. Olberg, Otto, Dresden. Flowers. 150
331. Ohlberg, Otto, Striesee, Prussia.
Azaleas. 150
332. Pape & Bergmann, Guedlinburg. Vio-
lets. 155
333. Pfitzer, Wilh., Stuttgart. Painting
of own cultivation. 171
334. Raue, Hermann, Dresden. Roses.
(Outdoor) 147
335. Richter, Alwin, Dresden. Roses.
(Outdoor) 147
336. Richter, Alwyn, Dresden. Flowers. 147
337. Richter, L. R., Dresden. Flowers. 147
338. Roemer, Friedr., Guedlinburg. Flow-
ers. 147
339. Sattler & Bethge, Guedlinburg.
Flowers. 147
340. Schels, Sophié, Munich. Natural
pressed flowers. 167
341. Schultz, Gust. A., Berlin.
a Roses. 147
b Bulbous plants. 153
c Palms. 159
342. Schwiglowski, A., Carow, near Ber-
lin. Dahlias. (Outdoor) 152
343. Seidel, T. J., Dresden. Flowers. 147
344. Tiefenthal, Oskar, Wandsbek.
a Roses. 147
b Cyclomen, etc. 157
c Begonias. 161
345. Timin, J., & Co., Elmshorn. Flowers. 147
346. Vollert, F. C., Luebeck.
a Roses. 147
b Lilies of the valley. 157
347. Vonder Smessen, C., Steglitz, near
Berlin. Lilies of the valley. 157
348. Wagner, Wilhelm, Max-Pirna, Sax-
ony. Bulbous blooming flowers. 153
349. Weissbach, Robert, Dresden. Roses.
(Outdoor) 147
350. Wrede, Heinrich, Lueneburg. Pan-
sies. 155

GROUP 23.

351. Goetze & Hannkens, Wandsbeck.
Asparagus. 174
352. Hahn, G. L., & Co., Luebeck. Canned
vegetables. 176
353. Koch, Max, Brunswick
a Canned vegetables. 176
b Pickles. 177
354. Pillmann, J. H., successor, Bruns-
wick. Preserved asparagus, etc. 176

GROUP 24.

355. Helms, J. M., Sons, Gross-Tabarz.
Pine and leaved wood seeds. 184
356. Knopff, P., & Co., Erfurt. Seeds. 180
357. Schmidt, J. L., Erfurt. Flower and
vegetable seeds. 180
358. Stoldt, C., Wandsbeck, near Marien-
thal. Cyclomen seed. 180
359. Vonder Smessen, C., Steglitz, near
Berlin. Bulbs and cyclomen seeds. 180

GROUP 25.

360. Heckel, J. V., Jnh. Danzer, Andreas,
& Ludwig, Munich. Trees lopped in form
of balls. 185
361. Timm, J. & Co., Elmshorn. Nursery
articles. (Outdoor). 187

GROUP 26.

362. Benary, Ernest, Erfurt. Labels, etc. 191
263. Bezerische, Hofgaerten-Direktion,
Kgl., Munich. Garden plans. 192
364. Castner, A., successor, Martin &
Piltzing, Berlin. Fountains. 192
365. Eck, Hektor, Blasewitz, Saxony.
Garden plans. 192
366. Eikert, Oskar, Berlin. Model of a
garden tent. 190
367. Erdmann, J. C., Arnstadt. Labels. 191
368. Grossherzog, Gartenverwaltung, Ol-
denburg. Plans of the grand-ducal parks. 192
369. Hoppe, Eduard, Berlin. Garden
plans. 192
370. Mehler, Gottfried, Hamburg. Grotto
with plants. (Outdoor) 192
371. Municipality, Berlin, Berlin. Plans of
public parks, etc. 192
372. Oderfelder Moebelfabrik, Fechter,
Kaltwasser, Oderfeld, Silesia. Pavilion of
cambered wood. 192
373. Ohrt, Karl, Bremen. Plans of a pub-
lic park at Bremen. 192
374. Ullrich, Emil, Proskau, Silesia.
Wooden frame, etc. 191
375. Wendt, Berlin. Sketches of land-
scape work. 921

GREAT BRITAIN.

GROUP 20.

1. Clarke, Joseph, Farnham. Grapes. 122

GROUP 21.

2. Beach, T. W., & Sons, Ltd., London.
a Preserved fruits. Dept. A 140
b Jellies. 141
3. Chambers, Charles, London.
a Preserved fruits. Dept. A 140
b Fruit jellies; marmalades. 141
4. Corry, William & Co., Belfast, Ireland. Lime juice preparations.
 Dept. A 143
5. Crosse & Blackwell, Ltd., London.
 Preserved fruits. Dept. A 140
6. Harry & Co., Calcutta, India. Preserves, jam, jelly, etc. Dept. A 141
7. Maconochie Bros., London. Preserved fruits. Dept. A 140
8. McIndoe, J., Guisborough. Fruits. E-67 133
9. Riddle, Alexander, & Co., London. Fruit juices. Dept. A 143
10. Rose, Lauchlan & Co., Leith, Scotland. Lime juice cordial and beverages. Dept. A 143

GROUP 22.—Northeast Curtain.

11. Bull, William, London. *Plants and flowers. 155

12. Cannell, H., & Sons, Swanley.

- a* Flowers and plants. 155
b Annuals, etc. 158

13. Carter, James, & Co., London. *Plants and flowers. 155

14. Dickson, Alex., & Sons, Newtownards, Ireland. Roses. 147

15. Forbes, John, Hawick, Scotland. *Flowers, plants, etc. 155

16. Kelwag & Son, Langport. *Plants and flowers. 155

17. Laird, R. B. & Sons, Edinburgh, Scotland. Pansies, etc. 155

18. Laing, John, & Sons, London. *Plants and flowers. 155

GROUP 24.

19. Carter, J., & Co., London. Seeds. Dept. A 179

20. Edmunds, Joseph, London. Seeds. Dept. A 179

21. Quibell Bros., Newark-on-Trent. Seeds. Dept. H 179

GROUP 26.

22. Main Thomas, Milton Bowling, Scotland. Horticultural buildings and appliances. Dept. A 188

23. Warne, Conway G., Weston-Super-Mare. Vases, etc. R-75 190

ITALY.

GROUP 20.

1. Abrate, B., Bra. Wines. 126
2. Ahrens & Co., Palermo. Wines. 126
3. Angugliaro, Lamici, Trapani. Wines. 126
4. Anselmi, Carl Alberts, Marsala. Wines. 126
5. Aula, Virgilio, Trapani. Wines. 126
6. Boano Bros., Asti. Wines. 126
7. Busetta, Andrea, Pantelleria. Grapes. 123
8. Campredon, Count Emanuel, Turin. Wines. 126
9. Canfora, Alfonso, Puzzuoli. Wines. 126
10. Carini, Enrico, Palermo. Wines. 126
11. Carpena-Malvotti, S. V., Conegliano. Wines. 126
12. Caselli, Cav. Raffaello, Rufina. Wines. 126
13. Cassano, Paolo, Gioia del Colle. Wines. 126
14. Cassola Bros., Syracuse. Wines. 126
15. Clementi. Comm Bartolo, Vicenza. Wines. 126

16. Curatolo, Arini Vits, Marsala. Wines. 126

17. Dacomo, Riccardi A., Milan. Wines. 126

18. Decillis & Lombardi, Barletta. Wines. 126

19. De Salvo, Salvatore, & Sons, Riposto. Wines. 126

20. D'Urso, Francesco, Andria. Wines. 126

21. Favara Bros. & Sons, Mazzara del Vallo. Wines. 126

22. Ferrero Bros., Bra. Wines. 126

23. Florio, I. V., Palermo. Wines. 126

24. Galbo, G. C., Catania. Wines. 126

25. Galfani & Pellegrini, Marsala. Wines. 126

26. Gallina, R., Barletta. Wines. 126

27. Gennari, Dr. Rutilio, Pesaro. Wines. 126

28. Giangrasso, Giuseppe, Trapani. Wines. 126

29. Giglio & Faraone, Palermo. Wines. 126

ITALY.

30. Giovanelli, Giuseppe, Fano. Wines.	126	60. Spano, Nicolo, & Co, Marsala. Wines.	126
31. Hopps, John, & Sons, Mazzara del Vallo. Wines.	126	61. Tosi (Torlonia Vineyard), San Maruro Romagna. Wines.	126
32. Ingrassia, A., & Co., Marsala. Wines.	126	62. Valcarengi, Giordano, Milan. Wines.	126
33. Lo Bando, Pietro, & Bro., Palermo. Wines.	126	63. Vajarelli, Giacomo, Trapani <i>a</i> Wines.	126
34. Lo Pinto-Valenza, Pantelleria. Grapes.	123	63. Vajarelli, Giacomo, Trapani <i>b</i> Wine casks.	130
35. Leonardi, Calanno Giuseppe, Acireale. Wines.	126	64. Vicariotto, Vincenzo, Odi G., Vicenza. Wines.	126
36. Lo Baiolo, Giuseppe, Palermo. Wines.	126	65. Winspeare, Duke di Salve, Castel di Salve. Wines.	126
37. Mancini, Carlo, Arezzo. Wines.	126	GROUP 21.	
38. Marchini, Anselmo, Mantova. Wines.	126	66. Bersatti, Stefano, Sato. Cider.	143
39. Mengarini, Cav. Florio, Rome. Viti-cultural appliances.	130	67. Biondi, S. A. N., Palermo. Limes and lemons.	Dept. A 134
40. Meschini, Eugenio, Gallarate. Wine press.	130	68. Chiarella, Lecce. Dried figs.	Dept. A 139
41. Mirafiore, Count Emanuel, Alba. Wines.	126	69. Chiappe Bros., Genoa. Preserves.	140
42. Monticone, Geacome, Turin. Wines.	126	70. De Felice, A., & Co., Rodi. Lemons and oranges.	Dept. A 134
43. Mortillaro, Marchese, Palermo. Wines.	126	71. Fricano Bros., Palermo. Preserves.	Dept. A 140
44. Narice Bros., Canelli. Wines.	126	72. Guillot, Matteo, Alghero. Dried figs.	Dept. A 139
45. Nencioni, Ferdinando, Pisa. Wines.	126	73. La Rosa, Giacomo, Palermo. Preserves.	140
46. Notari, Gustavo, Riposto. Wines.	Dept. A 126	74. Maniano, Francesco, & Sons, Castellabate. Dried figs.	139
47. Olla, Luigi di Giovanni, Rome. Wines.	126	75. Massardo, B., & Co., S. P. d'Arena. Preserves.	140
48. Patroni Griffi de Laurentiis, Santeramo. Wines.	126	76. Maniscalco, Palermo. Limes.	Dept. A 134
49. Prosperi, Emilio, Florence. Wines.	126	77. Mazzochi, Mariano, Ascoli Picano. Olives.	Dept. A 135
50. Puccio, Carlo Sebastiano, Chiavari. Wines.	126	78. Pressanti, G., Teramo. Dried figs.	139
51. Rallo, Diego, & Sons, Marsala. Wines.	126	79. Ruggia Bros., Rodi. Lemons and oranges.	134
52. Ricasoli-Firidolfi, Gio., Florence. Wines.	126	80. Scaduto & Nicosia, Bagheria. Preserves.	140
53. Ridolfi, Marchese, Firenze. Wines.	126	81. Torelli & Co., Leghorn. Fruits.	133
54. Rouff, Naples. Wines.	126	GROUP 22.	
55. Ruffino, I. L., Florence. Wines.	126	82. Hilderbrandt & Bredemeier, Pallanza. Flowers and plants.	155
56. Russo-Raia & Sons, Mazzara del Vallo. Wines.	126	GROUP 23.	
57. Salaparuta, E. Alliate, Palermo. Wines.	126	83. Rolli, Fantini P., Civitella Romagna. Tomatoes in bottles.	176
58. Salvia, Salvatore, & Son, Palermo. Wines.	126	GROUP 24.	
59. Scala, Pasquale, Naples. Wines.	126	84. Ingegnoli Bros., Milan. Samples of seeds.	180
		85. Metzger Bros., Asti. Flower seeds.	180

JAMAICA.

GROUP 20.

- Desporte & Co., Kingston. Wines. 128
- McCatty, A. G., & Son, Montego Bay. Wines. 128

GROUP 21.

- Cooke, Miss, Bethel Town. Preserves. 140
- Crosswell, J. M., & Co., Kingston. Fruit syrups. 143

- De Markado, Miss, Kingston. *a* Preserved fruits. 140
b Crystallized fruits. 142

- Fulford, E., Alligator Pond. Lime juice. 143
- Harrison, Jas., Hordley. Cocoanuts. 135
- Jamaica Fruit Association, Ltd., Kingston. Fruits in season. 135

DEPARTMENT B.—HORTICULTURE.

- | | |
|--|---|
| <p>9. Martin, Mrs., Great Valley.
 <i>a</i> Preserves. 140
 <i>b</i> Jellies, jams, etc. 141</p> <p>10. Reece, Mrs. I. Richard, Pedro. Preserved fruits, marmalade, etc. 140</p> <p>11. Silvera A. P., Oracabessa. Guava jelly. 141</p> <p>12. South, James, Kingston. Preserved pineapples. 140</p> <p>13. Taylor, Mrs., Kingston. Jamaica fruits in wax. 138</p> <p>14. Vaughan, Mrs., Grange Hill. Preserves. 140</p> <p style="text-align: center;">GROUP 22.</p> <p>15. Harding, the Misses, Kingston. Ferns. 160</p> <p>16. Harrison, E. Norman, Ocho Rios. Impressions of native leaves. 167</p> | <p>17. Jamaica. Tropical plants. 166</p> <p style="text-align: center;">GROUP 23.</p> <p>18. Feurtado, Jos., Kingston. Sauce. 177</p> <p>19. Henderson, Mrs. G., Gordon Town. Preserved tree tomatoes. 176</p> <p>20. McLeod, C., Whitehouse. Sauces. 177</p> <p>21. Reece, Mrs. J. Richard, Pedro. Pickles. 177</p> <p>22. Silvera, A. P., Oracabessa. Pickled and cayenne pepper. 177</p> <p style="text-align: center;">GROUP 24.</p> <p>23. Ingram, Miss C., Chapelton. Moss seeds. 179</p> <p>24. Walker, H., Retreat. Seeds and starch beans. 179</p> |
|--|---|

JAPAN.

- | | |
|--|---|
| <p style="text-align: center;">GROUP 21.</p> <p>1. Risaburō Nozawa, Ōsaka. Artificial fruits. 138</p> <p>2. Sadakichi Kimoto, Hiroshima. Persimmons. 139</p> <p>3. Tomosuke Sakai, Hyōgo. Chestnuts. 137</p> <p>4. Tsuguyoshi Kido, Ōsaka. Chestnuts. 137</p> <p>5. Tsuneshichi, Hotta, Hiroshima. Persimmons. 139</p> <p>6. Tsunesuke Nakamura, Hiroshima. Preserved persimmons. 139</p> <p style="text-align: center;">GROUP 22.</p> <p>7. Kichimon Satō, Shizuoka. Bamboo flower baskets. 169</p> <p>8. Kōtarō Tanaka, Tōkyō. Pictures. 170</p> <p>9. Nisaburō Uchiyama, Tōkyō. Illustrations of lilies and maples. 170</p> <p>10. Sahei Minami, Ōsaka. Maple trees. 161</p> <p>11. Shibato Tomiyama, Hyogo.
 <i>a</i> Orchids. 149
 <i>b</i> Chrysanthemums. 151
 <i>c</i> Lilioms. 153
 <i>d</i> Peonia mountain and peonia albi-flora. 155</p> | <p><i>e</i> Phapis flobelliformis and sago palms. 157</p> <p><i>f</i> Ornamental leaf plants. 161</p> <p><i>g</i> Iris laevigata and nelumbium. 163</p> <p><i>h</i> Cut flowers. 167</p> <p>12. Shichihei Oita, Ōsaka. Onions. 161</p> <p>13. Tokutarō Ōkuma, Saitama. Lilioms. 153</p> <p>14. Uhei Suzuki, Kanagawa. Pictures of botanical garden. 170</p> <p>15. Yeisuke Tanaka, Gifu. Ashagalus lotoides and seeds. 164</p> <p style="text-align: center;">GROUP 23.</p> <p>16. Masanori Matsuda, Nagasaki. Canned mushrooms. 177</p> <p>17. Seibeti Ota, Miyazaki. Shiitake (a kind of mushroom). 177</p> <p style="text-align: center;">GROUP 24.</p> <p>18. Osamu agui, Hyōgo. Fruit seeds. 184</p> <p>19. Toramatsu Suzuki Nagoya, Aicki. Morning glory seeds. 180</p> <p style="text-align: center;">GROUP 25.</p> <p>20. Sen Tsuda, Tōkyō. Plants, etc.</p> <p>21. Shichihei Oita, Ōsaka. Persimmons and chestnuts. 133 & 137</p> |
|--|---|

NORWAY.

GROUP 23.

1. Diakonhjim det norske, Christiania. Preserved vegetables, pickles, etc. Dept. H 177

SWEDEN.

GROUP 21.

1. Liljeholmens Vinfabrik, Stockholm. Berry-syrups, hedge-wines. Dept. A 143

ACME COPYING CO.

302 to 308 Van Buren Street

.. CHICAGO ..



The Largest and Most Complete Copying Establishment in the World
... AND THE ...

Pioneer House for Premium Portraits

FINE PORTRAITS IN GRAYON, INDIA INK, WATER COLORS, PASTEL AND OIL

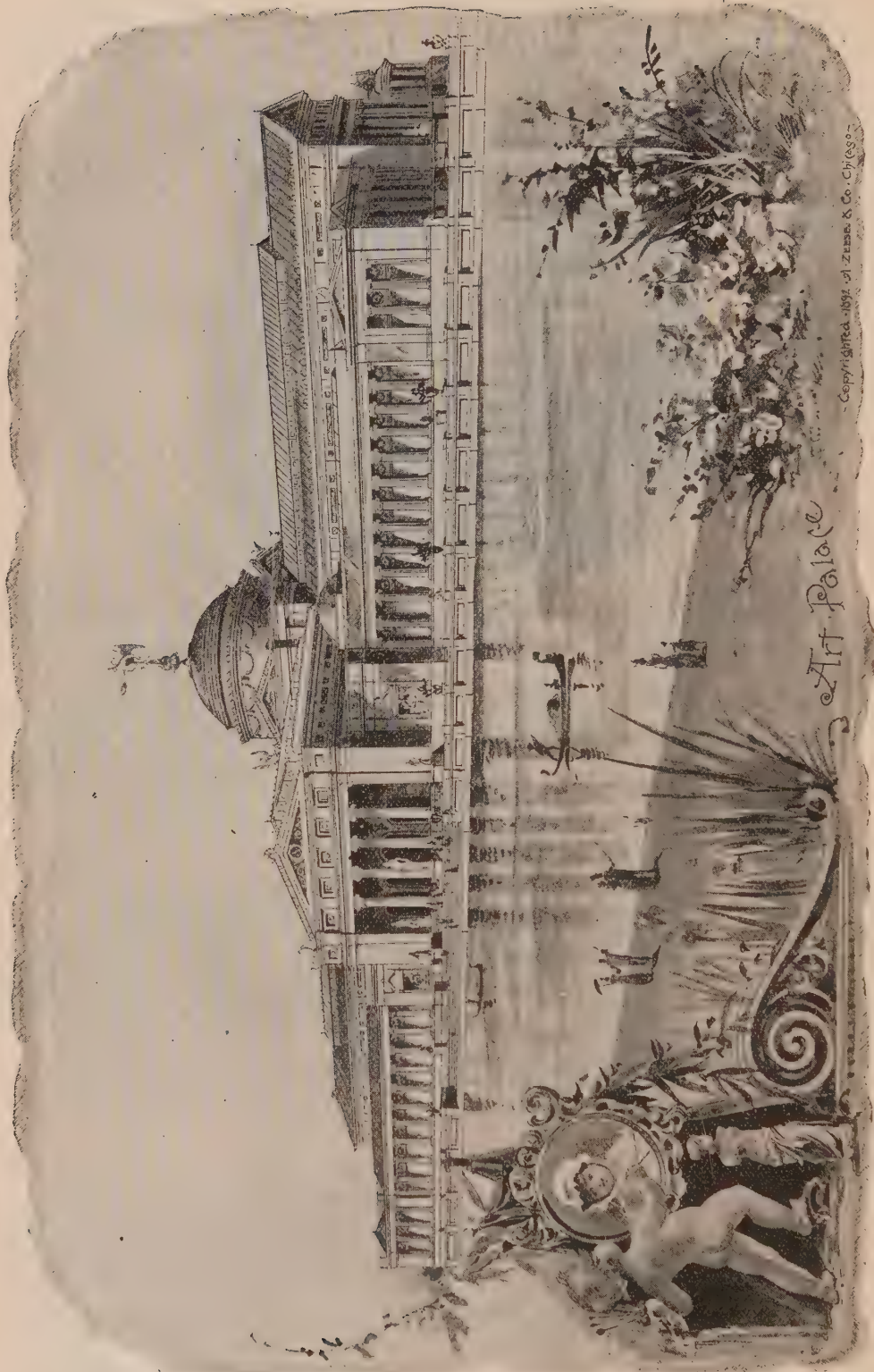
NEARLY 200,000 MADE IN 1892

To the Merchant

Who is handling other premium portraits than ours, send us a trial order We are making more, many times over, than any other copying house, and can therefore give you the most and best for the money. To those who have never used portraits for premiums, write us and we will tell you how they are bound to prove profitable to you, and why they are the greatest stimulant for cash trade ever introduced.

To Agents

Engaged in selling portraits, or who contemplate doing so, send for catalogue. We are supplying several hundreds of agents who make a specialty of collecting small pictures to be copied and enlarged. The large field of labor and liberal terms we offer you, together with the highest attainable degree of excellence with which our work is done, all combine to make the occupation an agreeable and very profitable one.



Art Palace

Copyrighted 1891 by Zane & Co. Chicago

HOME.

In the home a Conover Piano is a precious possession and a constant joy.

STUDIO.

Teachers find the Conover Pianos the most satisfactory for Tone, Touch and Durability.

CONCERT.

The Conover Pianos meet all the requirements of the most Exacting Concert Artists.

Chicago Cottage Organ Company,

SOLE FACTORS,

The Largest Dealers in Pianos and Organs in the World.

WHOLESALE AND RETAIL WAREROOMS,

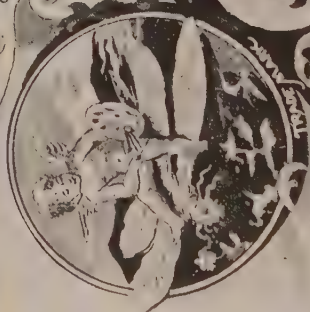
215 WABASH AVE.

(SECOND FLOOR.)

CHICAGO, U. S. A.

F. A. RINGLER & CO.

PHOTO-PROCESS
ENGRAVERS
AND
ELECTROTYPERS



21 AND 23 BARCLAY ST.

TO 26 AND 28 PARK PLACE

NEW YORK

SOLE AGENTS FOR THE EASTERN STATES

DEPARTMENT K.—FINE ARTS.

IT is the aim of this department to show a collection of the fine arts of the various nations, giving each country adequate space in which fairly to represent its highest and most characteristic achievements in painting, sculpture, architecture and decoration. In sculpture and architecture figures and monumental decorations, bas-reliefs in marble or bronze, figures or groups in bronze, gems, cameos and intaglios are shown. Paintings in oil, paintings in water color, paintings on ivory, on enamel, on metal, on porcelain and other wares, and fresco painting on walls, are included within the groupings, and in addition there are engravings and etchings, prints, chalk, charcoal, pastel and other drawings. All the works admitted to the department were first examined by juries duly constituted.

The building is Grecian-Ionic in style, and is a pure type of the most refined classic architecture. Perhaps no building in the world, and certainly no one in the United States, surpasses it in beauty. Connoisseurs have pronounced it *perfect* in every detail, and have been lavish in the praise of the chief designer, Mr. C. B. Atwood.

determine which is the more handsomely handsome the exterior or structure is oblong, feet, intersected and west by a nave hundred feet wide high, at the intersection a dome sixty feet building is 125 feet dome, which is colossal statue of figures of Winged transept has a clear center of sixty entirely from

On either side twenty feet wide feet above the transepts of the sculpture on the main floor transept, and on the ground floor are ample areas

paintings and sculptured panels in relief. The corners made by the crossing of the nave and transept are filled with small picture galleries.

Around the entire building are galleries forty feet wide, forming a continuous promenade around the structure. Between the promenade and the naves are the smaller rooms devoted to private collections of paintings and the collections of the various art schools. On either side of the main building, and connected with it by handsome corridors, are very large annexes, which are also utilized by various art exhibits.

The main building is entered by four great portals, richly ornamented with architectural sculpture, and approached by broad flights of steps. The walls of the loggia of the colonnades are highly decorated with mural paintings, illustrating the history and progress of the arts. The frieze of the exterior walls and the pediments of the principal entrances are ornamented with sculptures and portraits in bas-relief of the masters of ancient art. The general tone or color is



HALSEY C. IVES, CHIEF.

It is difficult to is the most striking and impressive—interior. The and is 500 by 320 north, east, south and transept one and seventy feet section of which is in diameter. The to the top of the surmounted by a the type of famous Victory. The space through the feet, being lighted above.

are galleries and twenty-four floor. The collection are displayed of the nave and the walls both of and of the galleries for displaying the

light gray stone. The construction is necessarily fire-proof. The main walls are of solid brick, covered with "staff," architecturally ornamented, while the roof, floors and galleries are of iron. All light is supplied through glass skylights in iron frames. The building is located in the northern portion of the park, with the south front facing the lagoon. It is separated from the lagoon by beautiful terraces, ornamented with balustrades, with an immense flight of steps leading down from the main portal to the lagoon, where there is a landing for boats. The north front faces the wide lawn and the group of State buildings. The immediate neighborhood of the building is ornamented with groups of statues, replica ornaments of classic art, such as the Choriagic monument, the "Cave of the Winds," and other beautiful examples of Grecian art. The ornamentation also includes statues of heroic and life-size proportions.

There is an eastern and western annex to the main building each of which is 120x200 feet.

A better representation from a greater number of different nations is seen than has ever been brought together at any previous Exposition. The responses from foreign governments and the enthusiasm of foreign artists when the art exhibit was thrown open to them has far exceeded the most sanguine predictions of two years ago. Visitors will, therefore, see not only an epochal exhibit of American art, but the choicest productions of the world's great masters from across the sea. Space is assigned to France, Germany, Austria, Holland, Great Britain, Belgium, Sweden, Norway, Denmark, Russia, Italy, Spain, Japan, Canada and Mexico. There is also a gallery devoted to modern European master-pieces owned in private collections in America. This space is situated between the United States and French sections. Lovers of the finesse in the French school will see masterpieces by acknowledged leaders. The famous Dutch school, the Russian, the less known but powerful Scandinavian, the impressionist, and many others are represented by a selection of the choicest productions from the leaders of each school. When it comes to a critical study of American art, the patriotic American will discover therein not only certain characteristics of each of the foreign schools, but a distinct individuality, just as the American character is composite and a reflex of its varied sources.

The international fine arts expositions of the past may be said to have begun with Paris in 1867. Then followed Vienna in 1873, Philadelphia in 1876, Paris in 1878, and special exhibitions of fine arts in Berlin and Munich some years later. Then came the Melbourne Exposition, preceding the last great international exposition in Paris in 1889. An idea of the scope of the present fine arts exposition may be gathered from the fact that the fine arts exhibit contains between 1,500 and 2,000 pieces in the American section alone. In round figures France contributes 800 pieces, Germany 900, Dutch artists 300, England 600, Austria 300, Denmark 250, Sweden 200, Italy 600, Norway 180 and Belgium 400. The largest space is given to the United States artists. Next comes France with 19,201 square feet, next Germany, Great Britain, Italy, Belgium and Austria in order, and so on ranging down to Mexico, which has 1,500 square feet. In securing a good representation of American art, advisory committees were appointed in the leading art centers of the United States and in European centers where American art colonies flourished. By an interchange of service these advisory committees became juries of selection. The work of these juries and of the national jury for the west and south that recently performed its labors in Chicago, is familiar to the reading public. For a special exhibition of retrospective American art, a special committee was appointed to solicit from private American owners and societies a loan collection that would best exhibit historical art in America. This committee has selected about a hundred pieces that are hung together in one of the galleries. The collection shows the work of native artists from the earliest known specimens down to 1876. There is a loan collection of foreign masterpieces, owned in America, which are hung in three adjoining galleries in the west end of the east pavilion. These are all the prop-

erty of American collectors. They include all the illustrious names among artists, beginning with the dawn of this century and up to the present time. From Boston and San Francisco, from New York, Chicago, Philadelphia and other centers, these pictures come. Millet, Rosa Bonheur, Carolus-Doran, John Constable, Millais, Meissonier, Alma Tadema and a score of other famous names are represented. There are about 150 pieces in the loan collection. The lenders include the best known art patrons in America. From Chicago galleries there are paintings loaned by Potter Palmer, Charles T. Yerkes, Mrs. Henry Field, R. Hall McCormick, Martin Ryerson, C. L. Hutchinson, A. A. Munger and S. M. Nickerson.

The east and west pavilions connect with the central pavilion by means of corridors, which are also used as galleries. The east pavilion contains the French government exhibit and also the French masterpieces owned by Americans. The west pavilion contains the Italian exhibit and the exhibits of several other foreign countries whose space is limited. The central pavilion has two floors for the exhibit of paintings. The northeast section, or one-fourth of the space for paintings, is devoted to the works of United States artists. The southeast section is given up to Great Britain and Canada. The southwest section contains the works of art sent by Holland, Spain, Russia and Japan. The northwest section contains all the German paintings. In general terms the oil paintings are all hung on the ground floor in the central pavilion, while water colors are on the second floor. There is a overflow exhibit of oil paintings upstairs in the American section.

Between these four quadrangles are four courts and the central rotunda. The north and south courts contain the groupings of statuary. The east and west courts contain the architectural exhibit. Here are seen structures and casts illustrating ancient, mediæval and modern architecture. Cases of antique and modern carvings, and architectural drawings are hung on the walls. In the north and south courts is the installation of statuary. There are figures and groups in marble, casts from original works by modern artists, models, monumental decorations, figures and groups in bronze and bas-reliefs in marble and bronze.

The central rotunda contains a heroic figure of Washington by Thomas Ball. On the sides of the rotunda are twelve spaces for figure groupings furnished by different foreign countries. There are also rotundas in each of the smaller pavilions, where statuary and architectural specimens are grouped. There are eighty galleries in all including the east and west pavilions. These range from 30 feet square to 36 by 120 feet for the exhibition of paintings. There are also 108 alcoves, fronting on the court of the central pavilion. Twenty-eight of these are on the first floor and eighty on the second floor, and much additional wall space is gained by their use. Engravings, etchings and black-and-whites are mainly upstairs with the water colors, and pastels are downstairs with the oils.

The lighting arrangements are as faultless as can be devised. All the pavilions, including rotundas, courts and galleries, are lighted from above. The modulation of natural light in the daytime is simple and effective. The system of artificial lighting at night is in itself a work of art. Myriads of incandescent lamps shed a mellow radiance over courts and galleries. The electric lamps are arranged in clusters above each court, and also in continuous rows around the galleries. The attractiveness of the art galleries at night is one of the features of the Exposition.

METAL ...
TIPPED

EVER READY DRESS STAY

WILL NOT
CUT THROUGH

SEE NAME "EVER READY" ON BACK OF EACH STAY.

ACKNOWLEDGED
THE

BEST DRESS STAY

.... ON
THE MARKET

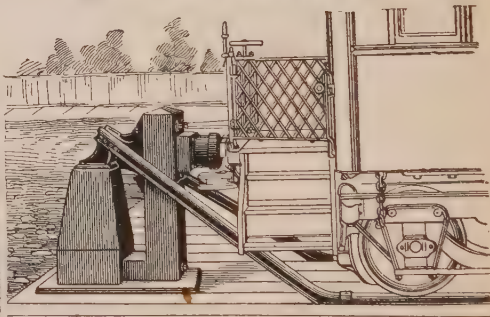
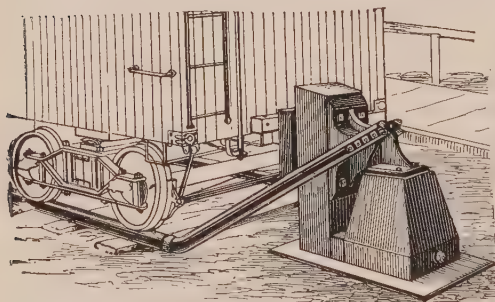
Made with GUTTA PERCHA on BOTH SIDES of steel and warranted waterproof. All other stays are made differently and will rust. BEWARE OF IMITATIONS. Take none but the "EVER READY."

FOR SALE BY ALL JOBBERS AND RETAILERS.

MANUFACTURED BY THE YPSILANTI DRESS STAY MFG. CO.

YPSILANTI, MICH.

SPECIAL } MODEL DRESS STEEL CO., 74 GRAND ST., NEW YORK.
DEPOTS } BROWN & MENTZNER, 535 MARKET ST., SAN FRANCISCO, CAL.



J. H. RUSHTON, CANTON, N. Y., U. S. A.

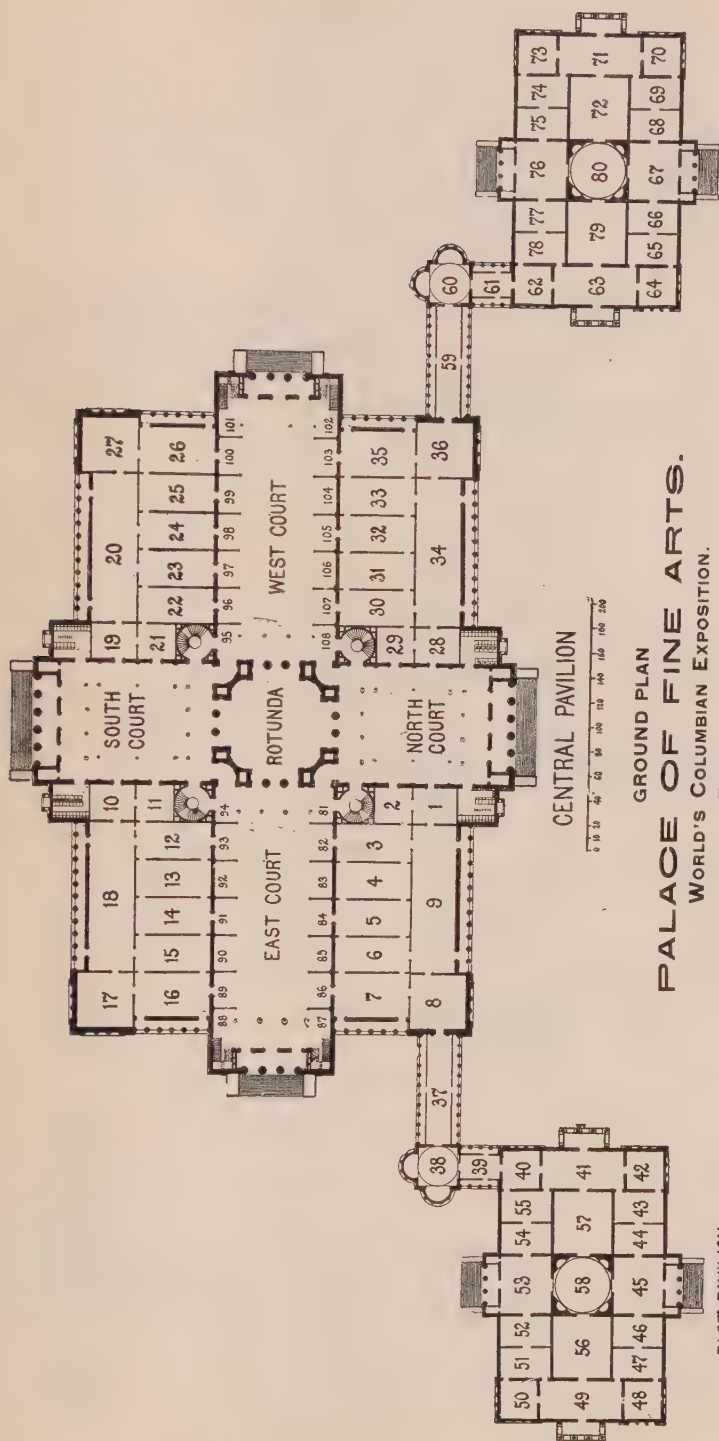
Pleasure Boats,
Sail Boats,



Cruisers,
Sailing Canoes,

AND ALL KINDS OF SMALL CRAFT AND THEIR FITTINGS.

CALL AT EXHIBIT, TRANSPORTATION BUILDING GALLERY, SEC. E, COLS. 31-32.
OR WRITE FOR ILLUSTRATED CATALOGUE.

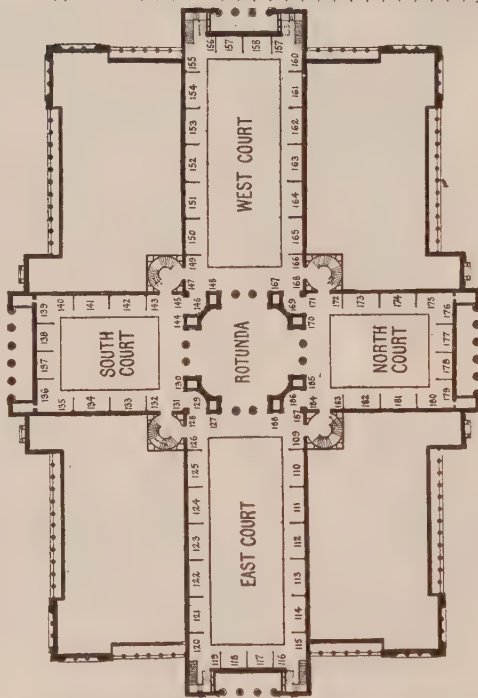


KEY TO INSTALLATION.

This building, which is expressly devoted to the exhibit of fine arts, painting, sculpture and statuary, is divided into four great courts known as the north, south, east and west courts. These lead into a space known as the central dome. Each space for exhibits is indicated by a number in connection with the court in which it is located. In connection with the main building are pavilions located at each corner, where exhibits are also shown, an exterior colonnade extending from each pavilion to the north and south courts. The paintings, sculpture and groups of statuary are each indicated in regular numerical order. The location of the exhibit will be found by referring to the name of the exhibitor and then glancing at the diagram, where the court, or gallery, containing the exhibit is shown, together with the number of the painting, etc. The exhibits in the loggias, and also on the second floor, are indicated in like manner.

EAST PAVILION
 BY THE
WORLD'S COLUMBIAN EXPOSITION
 FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
 CHICAGO.

PLAN OF UPPER GALLERY. CENTRAL PAVILION.



ASSIGNMENT OF SPACE.

UNITED STATES—Galleries: 1, 2, 3,
4, 5, 6, 7, 8, 9, 37, 38, 39, 40, 41, 42.
FRANCE: 43, 44, 45, 46, 47, 48, 49, 50,
51, 52, 53, 54, 55, 56, 57, 58.
GREAT BRITAIN: 12, 13, 14, 15, 16,
17, 18.
CANADA: 10, 11.
RUSSIA: 19, 20.
SPAIN: 21, 22, 23.
JAPAN: 24.
HOLLAND: 25, 26, 27.
GERMANY: 28, 29, 30, 31, 32, 33, 34.
AUSTRIA: 35, 36, 59, 60, 61.
SOCIETY OF POLISH ARTISTS: 62.
BELGIUM: 63, 64, 65, 66, 67.

ASSIGNMENT OF SPACE.

SWEDEN: 68, 69, 70.
NORWAY: 71, 72.
DENMARK: 73, 74, 75.
ITALY: 76, 77, 78, 79, 80.
MEXICO: Space in Gallery, South
Court: 134, 135, 136.
Architecture and Sculpture are
shown in the Rotunda, North,
South, East and West Courts of
the Central Pavilion, and in the
Rotundas of the East and West
Pavilions.
Water-colors, Engravings, etc., are
shown mostly in the Upper Gal-
leries of the Central Pavilion, 109
to 188.

PLAN OF UPPER GALLERIES
CENTRAL PAVILION

PALACE OF FINE ARTS. WORLD'S COLUMBIAN EXPOSITION.

COPYRIGHTED 1893,
BY THE

WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO.

CLASSIFICATION.

ART DEPARTMENT (K).

FINE ARTS; PAINTING, SCULPTURE, ARCHITECTURE AND DECORATION.

GROUP 139.

SCULPTURE.

- Class 820. Figures and groups in marble; casts from original works by modern artists; models and monumental decorations.
 Class 821. Bas-reliefs in marble or bronze.
 Class 822. Figures and groups in bronze.
 Class 823. Bronzes from *cire-perdue*.

GROUP 140.

PAINTINGS IN OIL.

GROUP 141.

PAINTINGS IN WATER COLORS.

GROUP 142.

PAINTINGS ON IVORY,

ON ENAMEL,

ON METAL,

ON PORCELAIN

OR OTHER WARES;

FRESCO PAINTING ON WALLS.

GROUP 143.

ENGRAVINGS AND ETCHINGS; PRINTS.

GROUP 144.

CHALK,

CHARCOAL,

PASTEL

AND OTHER DRAWINGS.

GROUP 145.

ANTIQUE AND MODERN CARVINGS;

ENGRAVINGS IN MEDALLIONS OR IN GEMS;

CAMEOS, INTAGLIOS.

GROUP 146.

EXHIBITS OF PRIVATE COLLECTIONS.

DEPARTMENT OF FINE ARTS. (K)

UNITED STATES SECTION.

JURIES OF ACCEPTANCE.

GROUP 139.—SCULPTURE.

NEW YORK.

Augustus St. Gaudens.	Olin L. Warner.
J. Q. A. Ward.	John J. Boyle.
Daniel C. French.	

PHILADELPHIA.

John J. Boyle.	Daniel C. French.
Olin L. Warner.	

BOSTON.

Daniel C. French.	Olin L. Warner.
John J. Boyle.	

ROME.

Harriet Hosmer.	Waldo Story.
Franklin Simmons.	Larkin G. Mead.

FLORENCE.

William Couper.	Larkin G. Mead.
Waldo Story.	

NATIONAL JURY AT CHICAGO.

Daniel C. French, <i>Boston.</i>	Lorado Taft, <i>Chicago.</i>
Robert Bringhurst, <i>St. Louis.</i>	

ALTERNATES.

John J. Boyle, <i>Philadelphia.</i>	Carl Rohl Smith, <i>Chicago.</i>
J. Gelert, <i>Chicago.</i>	

GROUP 140.—PAINTINGS IN OIL.

NEW YORK.

William M. Chase.	Eastman Johnson.
R. Swain Gifford.	H. Bolton Jones.
F. D. Millet. (G. W. Maynard, Alternate.)	
I. M. Gauguigil.	John W. Beatty.
E. C. Tarbell.	Charles E. Dana.

PHILADELPHIA.

John W. Beatty.	Clifford P. Grayson.
Charles E. Dana.	Joseph R. Woodwell.
William Dalliba Dutton.	Eastman Johnson.
H. Bolton Jones.	

BOSTON.

Thomas Allen.	E. C. Tarbell.
J. J. Enneking.	F. P. Vinton.
I. M. Gauguigil.	William M. Chase.
R. Swain Gifford.	

PARIS.

F. A. Bridgman.	Walter McEwen.
W. T. Dannat.	Gari J. Melchers.
Walter Gay.	Charles Sprague Pearce.
Alexander Harrison.	J. L. Stewart.
E. L. Weeks.	

MUNICH.

Walter Beck,
J. Frank Currier.

Carl Marr.
Orrin Peck.

Toby Rosenthal.

ROME.

C. C. Coleman.

Elihu Vedder.

William Stanley Haseltine.

NATIONAL JURY AT CHICAGO.

J. G. Brown, *New York*.
G. W. Maynard, *New York*.
J. Francis Murphy, *New York*.
Thomas Hovenden, *Philadelphia*.
Thomas Allen, *Boston*.
H. F. Farny, *Cincinnati*.

Gari J. Melchers, *Detroit*.
Douglas Volk, *Minneapolis*.
John H. Fry, *St. Louis*.
Frederick W. Freer, *Chicago*.
John H. Vanderpoel, *Chicago*.
Walter McEwen, *Chicago*.

C. C. Coleman, *Rome, Italy*.

GROUP 141.—PAINTINGS IN WATER COLORS.

NEW YORK.

Frederick Dielman.
Charles Harry Eaton.

J. C. Nicoll.
Walter Shirlaw.

Louis C. Tiffany.

In other cities the Jury for Paintings in Oil also acted for Water Colors.

GROUPS 139, 142 and 145.—ARCHITECTURE.

NEW YORK.

Richard M. Hunt.
William B. Tuthill.

Stanford White.
Frank Miles Day.

C. Howard Walker.

PHILADELPHIA.

Frank Miles Day.
Henry Pettit.

John Stewardson.
W. B. Tuthill.

Edmund M. Wheelwright.

BOSTON.

Edward C. Cabot.
C. Howard Walker.

Edmund M. Wheelwright.
John Stewardson.

W. B. Tuthill.

NATIONAL JURY AT CHICAGO.

C. B. Atwood, *New York*.
Cass Gilbert, *St. Paul*.

W. S. Eames, *St. Louis*.
S. S. Beman, *Chicago*.

D. Adler, *Chicago*.

GROUP 142.—Same Juries as for Paintings in Oil, and for Architecture.

GROUP 143.—ENGRAVINGS AND ETCHINGS; PRINTS.

FOR ETCHINGS.

NEW YORK.

Carleton T. Chapman.
Samuel Colman.

C. F. W. Mielatz.
C. A. Platt.

James D. Smillie.

PHILADELPHIA.

Hermann Faber.

Bernhard Uhle.

Max Rosenthal.

BOSTON.

W. B. Closson.

Charles A. Walker.

S. R. Koehler.

FOR WOOD ENGRAVING.

NEW YORK.

Horace Baker.

Frank French.

John P. Davis

PHILADELPHIA.

A. M. Lindsay.

C. H. Reed.

BOSTON.

W. B. Closson.

Charles A. Walker.

S. R. Koehler.

COMMITTEE ON A RETROSPECTIVE EXHIBIT OF AMERICAN PAINTING

COMMITTEE-AT-LARGE.

Charles Henry Hart, *Philadelphia*, *Chairman*.
Thomas B. Clarke, *New York*. Charles G. Loring, *Boston*.

ADVISORY COMMITTEE.

NEW YORK.

John La Farge.

John F. Weir.

BOSTON.

Hon. Martin Brimmer.
J. Templeman Coolidge.

Gen. Charles G. Loring.
Frederick P. Vinton.

J. Harvey Young.

PHILADELPHIA.

Charles Henry Hart.

Henry Whelen, Jr.

J. Granville Leach.

Department K.--Fine Arts.

UNITED STATES.

GROUP 139.

Sculpture.

- Adams, Herbert, New York.**
 1. Portrait Bust of a Lady. (Marble.)
 2. Primavera. (Marble.)
 3. Colored Bust of St. Agnes. (Plaster.)
Bachman, Max, Boston.
 4. Bust of Miss O. (Plaster.)
 5. Portrait Bas-relief of Mrs. Frank Sheldon. (Plaster.)
 6. The Son of Man. (Plaster.)
 7. Portrait Bas-relief. (Plaster.)
Bartlett, Paul, Paris.
 8. Medallion Portrait of Rev. Dr. Skinner. (Marble.)
 9. The Ghost Dance (study of the nude). (Plaster.)
 10. Bohemian and Bear. (Plaster.)
 11. Bust of Mrs. B. (Marble.)
Baur, Theodore, New York.
 12. The Secret. (Unfinished.) (Plaster.)
 13. Panel of Joseph Jefferson as Rip Van Winkle, Bob Acres, and Dr. Pangloss. (Bronze.)
Bissell, George E., New York.
 14. John Watts. (Bronze.)
Borglum, J. Gurtzon, Chicago.
 15. Indian Scouts. (Bronze.)
Boyle, J. J., Philadelphia.
 16. Tired Out. (Bronze.) (From Circle perdue.)
Bradley, Amy A., Boston.
 17. Daughter of the Pharaohs. (Plaster.)
 18. Bust of a Boy. (Plaster.)
Bringhurst, Robert P., St. Louis.
 19. Awakening of Spring. (Terra Cotta.)
 20. Faun—Fragment of a Fountain. (Plaster.)
Brooks, Caroline S., New York.
 21. Iolanthe. (Marble.)
 22. Lady Godiva. (Marble.)
 23. Lady Godiva Returning. (Marble.)
 24. Vanderbilt Group. (Marble.)
Brooks, Carrie.
 25. Enid. (Bust of a Child.) (Plaster.)
Bush-Brown, H. K., New York.
 26. The Buffalo Hunt. (Plaster.)
Byrnes, James A., Denver.
 27. Wounded Buffalo. (Plaster.)
Calder, A. Sterling, Philadelphia.
 28. Cordelia. (Plaster.)
 29. Boy with Ribbon. (Plaster.)
Cannon, John L., New York.
 30. Bas-relief of Elizabeth Cannon. (Bronze.)
Ciani, V. A., New York.
 31. A Cavalier. (Bronze.)
Clarke, Thomas Shields, Paris.
 32. The Cider Press. (Bronze.)
Cohen, Catherine, Paris.
 33. Bust of Henry Souther. (Plaster.)
Copp, Ellen R., Chicago.
 34. Relief Portrait of Harriet Monroe. (Bronze.)
Cox, Charles B., Philadelphia.
 35. American Buffalo. (Bronze.)
Cushing, Robert, New York.
 36. Bust of Cardinal McCloskey. (Bronze.)
Dallin, C. E., Paris.
 37. Signal of Peace. (Bronze.)
 38. Portrait Bust. (Marble.)
Donoghue, John, London.
 39. Kypros. (Plaster.)
 40. The Young Sophocles leading the Chorus of Victory after the Battle of Salamis. (Plaster.)
Fjelde, Jakob, Minneapolis.
 41. Bas-relief of Burt Harwood. (Plaster.)
 42. Bust of Judge Nelson. (Bronze.)
French, Daniel C., New York.
 43. Bust of A. Bronson Alcott. (Bronze.)
 44. The Angel of Death and the Sculptor. (Plaster.)
Gelert, J., Chicago.
 45. Bust of Abraham Lincoln. (Plaster.)
 46. The Little Architect. (Plaster.)
 47. Theseus. (Bronze.)
 48. Struggle for Work. (Plaster.)
Grafly, Charles, Philadelphia.
 49. Daedalus. (Bronze.)
 50. Bad Omens. (Plaster.)
Griffith, J. Milo, Chicago.
 51. Bust. (Plaster.)
 52. Sabrina, Goddess of the Severn. (Bronze.)
 53. Nubian Captive. (Plaster.)
 54. Coursing during the time of Queen Elizabeth. (Bronze.)
 55. Shield presented to H. R. H. the Princess of Wales on her Silver Wedding by the inhabitants of South Wales. (Electroplate.)
 56. Medallion. Study of a Female Head. (Marble.)
 57. Medallion. Dawn. (Marble.)
Hamond, Jane N., Boston.
 58. Lucie. (Bronze.)
 59. A Medallion. (Plaster.)
Hartley, J. S., New York.
 60. Pan. (Bronze.)
 61. Bust of Wm. C. Church. (Bronze.)
 62. John Gilbert as Sir Peter Teazle. (Bronze.)

DEPARTMENT K.—FINE ARTS.

- Hyatt, H. R., Boston.
 63. Head of Laughing Girl. (Plaster.)
Kemeys, Edward, Chicago.
 64. Old Ephraim. (Bronze.)
 65. After the Feast. (Bronze.)
 66. American Bay Lynx. (Bronze.)
 67. American Panther and Her Cubs. (Bronze.)
 68. Grappling His Game. (Bronze.)
 69. Fighting Panther and Deer. (Bronze.)
 70. Texan Bull and Jaguars. (Bronze.)
 71. The Still Hunt. (Bronze.)
 72. Battle of the Bulls. (Bronze.)
 73. American Black Bear. (Bronze.)
 74. Jaguar and Boa-constrictor. (Bronze.)
Kitson, Henry A., Boston.
 75. Music of the Sea. (Bronze.)
 76. Portrait Bust. (Marble.)
 77. Christ Crucified. (Plaster.)
Lindstrom, August, Chicago.
 78. Bust of John Ericsson. (Plaster.)
Martiny, Phillip, New York.
 79. Portrait Bust of a Child. (Plaster.)
Mead, Larkin G., Florence.
 80. The Return of Proserpine from the Realms of Pluto. (Plaster.) On pediment of Agricultural Building.
Mills, J. Harrison, New York.
 81. Portrait Medallion. (Plaster.)
Murray, Samuel, Philadelphia.
 82. Study of a Child. (Bronze.)
 83. Walt Whitman. (Bronze.)
Niehaus, C. H., New York.
 84. Historical Door of Trinity Church. (Plaster.)
 85. Athlete. (Plaster.)
O'Donovan, W. R., New York.
 86. Bust of Thomas Eakins. (Bronze.)
 87. Bust of R. S. Gifford. (Bronze.)
Partridge, William Ordway, Boston.
 88. Portrait Bust of a Lady. (Marble.)
 89. Bust of J. R. Lowell. (Plaster.)
 90. Shakespeare. (Plaster.)
 91. Nearing Home. (Marble.)
 92. Madonna. (Plaster.)
 93. Head of Christ. (Marble.)
 94. Milton. (Bronze.)
 95. Night. Marble.)
 96. A Dream. (Marble.)
Peterson, George D., Chicago.
 97. Tiger at Bay. (Plaster.)
Potter, Bessie O., Chicago.
 98. Prof. David Swing. (Plaster.)
Prescott, Katherine, Boston.
 99. Medallion. Joy to the New Year, Peace to the Old. (Plaster.)
 100. Medallion. Bas-relief of Ralph Waldo Emerson. (Plaster.)
Rogers, John, New York.
 101. Rip Van Winkle. (Bronze.)
 102. Wounded Scout. (Bronze.)
 103. Going for the Cows. (Bronze.)
 104. Taking the Oath. (Bronze.)
 105. Uncle Ned's School. (Bronze.)
 106. Going to the Parson. (Bronze.)
 107. One More Shot. (Bronze.)
 108. Rip Van Winkle in the Mountains. (Bronze.)
 109. Council of War. (Bronze.)
 110. Abraham Lincoln. (Plaster.)
Rohl-Smith, Carl, Chicago.
 111. Mato Wanartaka (Kicking Bear), Chief of the Sioux. (Plaster.)
 112. Bust of Henry Watterson. (Bronze.)
Ruggles, Theo Alice, Boston.
 113. A New England Fisherman. (Plaster.)
 114. Portrait bust (Italian child). (Bronze.)
 115. Young Orpheus. (Plaster.)
 116. On the Banks of the Oise. (Bronze.)
Tilden, Douglas, Paris.
 117. Young Acrobat. (Bronze.)
 118. Baseball Player. (Plaster.)
 119. Tired Boxer. (Plaster.)
 120. Indian Bear Hunt. (Bronze.)
Triebel, Frederick E., Florence.
 121. Medallion of Savonarola. (Plaster.)
 122. Medallion of Donatello. (Plaster.)
 123. Mysterious Music. (Bronze.)
 124. Love Knows no Caste. (Marble.)
 125. Bust of Gen. John A. Logan. (Marble.)
 126. The First Fish. (Marble.)
 127. Bust of Rev. Edwin B. Russell. (Marble.)
Turner, William G., Florence.
 128. A Dream. (Marble.)
 129. Fisherman's Daughter. (Marble.)
 130. The Herald of Peace. (Bronze.)
 131. Rhoda. (Marble.)
Varney, Luella, Rome.
 132. Mark Twain. (Bronze.)
 133. Portrait of a Lady. (Marble.)
Volk, Leonard W., Chicago.
 134. Bust of Colonel Hascall, U. S. A. (Marble.)
 135. Bust of a Lady. (Marble.)
Warner, Olin L., New York.
 136. Diana. (Plaster.)
 137. Medallion of Joseph, Chief of the Nez Perces Indians. (Bronze.)
 138. Medallion of Columbia River Indians. (Bronze.)
 139. Portrait of J. Alden Weir. (Bronze.)
 140. Portrait of a Baby. (Bronze.)
 141. Bust of Mozart. (Plaster.)
 142. Model for a Caryatid. (Plaster.)
Wesselhoeft, F. G., Boston.
 143. Titania and Bottom. (Plaster.)
 144. African Head. (Plaster.)
White, Alfred, Paris.
 145. Portrait of Monsieur M. (Plaster.)
Whitney, Anna, Boston.
 146. Roma. (Plaster.)
Wuertz, Emil H., Chicago.
 147. Murmur of the Sea. (Plaster.)
Zearing, H. H., Chicago.
 148. Bas-relief of Abraham Lincoln. (Bronze.)

GROUP 140.

Paintings in Oil.

- Albright, A. E., Chicago.**
 149. Morning-glories.
Alexander, Henry, New York.
 150. Chinese Interior.
Allen, Thomas, Boston.
 151. Moonrise.
 152. Thoroughbreds. (Owned by Mrs. Thomas Allen, Pittsfield, Mass.)
 153. Under the Willows.
 154. Coming Through the Wood.
Allen, W. S., New York.
 155. Evening at the Lake.
Amsden, William T., New York.
 156. Spanish Meadows.
Anderson, David J., Woodridge, N. J.
 157. Landscape.

UNITED STATES.

158. **Armstrong, Maitland, New York.**
 "White House," Pont Aven, Brittany.
 159. **Baer, William J., New York.**
 Day Dream.
 160. **Baird, W. D., Paris.**
 Waiting Their Turn.
 161. **Baker, Ellen Kendall, Puteaux, France.**
 Sans Souci.
 162. **Baker, Mary K., Boston.**
 Chrysanthemums.
 163. **Baker, William Bliss (deceased).**
 Silence.
 Lent by Thomas B. Clarke, New York.
 164. **Barnard, E. H., Boston.**
 MIDDAY.
 165. **Portrait of E. H. B.**
Bates, Dewey, Cookham Dene, Berkshire, England.
 166. **Spring.** (Owned by Mrs. A. C. C. Bere, London.)
Beaux, Cecilia, Philadelphia.
 167. **Last Days of Infancy.**
 168. **Portrait of a Boy.**
Beck, Carol H., Philadelphia.
 169. **Portrait of Governor Pattison.** (Owned by Hon. R. E. Pattison, Harrisburg, Pa.)
 170. **Portrait.**
Beckwith, Carroll, New York.
 171. **Mr. Isaacson.**
 172. **Portrait of Miss E. A. H.**
 Lent by Miss Hall, New York.
Bell, E. A., New York.
 173. **Portrait. Study of a Lady in Gray.**
Benedict, Enella, Lake Forest, Ill.
 174. **Brittany Children.**
Benson, Frank W., Salem, Mass
 175. **Figure in White.**
 176. **Portrait in White.**
 177. **Girl with a Red Shawl.** (Owned by Mrs. David Kimball, Boston.)
Bicknell, Frank A., Paris.
 178. **An Old Apple Orchard.**
 179. **Along the River Oise.**
Bigelow, D. F., Chicago.
 180. **Lake Champlain and the Adirondacks.**
Bisbing, Henry S., Paris.
 181. **On the River Shore.**
 182. **Afternoon in the Meadow.**
 183. **Lapsing Waves on Quiet Shore.**
Blackman, Walter, London.
 184. **A Capri Belle.**
Blakelock, R. A.
 185. **Moonlight.**
 Lent by W. M. Laffan, New York.
 186. **Cloverdale.**
 Lent by Thomas B. Clarke, New York.
Blashfield, Edwin H., New York.
 187. **The Angel with the Flaming Sword.**
 188. **Christmas Bells.**
 189. **Portrait.**
Blenner, Carle J., New York.
 190. **Contentment.**
 191. **Portrait of El Señor Don Roderigo de Saavedra.** (Owned by Roderigo de Saavedra, Jr., Royal Spanish Legation, Washington.)
Bogert, George H., New York.
 192. **Morning.**
 193. **Moonlight.**
194. **Boggs, Frank M., Paris.**
 Fishing Boats Going Out, Isigny, France. (Owned by James H. Dole, Chicago.)
 195. **Brooklyn Bridge.**
Boston, Joseph H., Brooklyn.
 196. **Gladys. A Portrait.**
Boughton, George H. Care of Messrs. Dunthorne, London.
 197. **An English Spring Day.**
Boutwood, Charles E., Chicago.
 198. **Portrait of Hon. C. B. Farwell.** (Owned by Mrs. Dudley Winston, Chicago.)
Boyden, Dwight Frederic, Paris.
 199. **The Pines of Mauve.**
Bregler, Charles, Philadelphia.
 200. **Portrait of a Woman.** (Owned by Mrs. Wm. Bregler, Philadelphia.)
Bridgman, F. A., Paris.
 201. **Passage of the Red Sea.**
 202. **Women at the Mosque, Algiers.**
 203. **In a Village at El Biar, Algiers.**
 204. **Day Dreams.**
Bristol, J. B., New York.
 205. **Mount Chocorua, N. H.**
Brooks, A. F., Chicago.
 206. **The Primrose Way.**
Brouwer, T. A., Jr., East Hampton, L. I.
 207. **Musk Melons.**
Brown, J. Appleton, New York.
 208. **Springtime.**
Brown, J. G., New York.
 209. **A Card Trick.**
 210. **The Stump Speech.**
 211. **Training the Dog.**
 212. **Pull for The Shore.**
 Lent by Isidore Strauss, New York.
 213. **Homeward Bound.**
 Lent by W. T. Evans, New York.
 214. **At the Old Cottage.**
 Lent by Gilbert Gaul, New York.
 215. **When we Were Girls.**
 Lent by E. Asiel, New York.
Brown, Matilda, New York.
 216. **An Unwilling Model.**
Brown, Walter Francis, Venice.
 217. **Roscona, Sunrise.**
Browne, Charles Francis, Chicago.
 218. **Old Poplar Trees.**
 219. **Sand Dunes of Drummadoon, Arran.**
 220. **Back from the Beach, Cape Ann.**
 221. **On the Oise, France.**
Brush, George de Forest, New York.
 222. **Mother and Child.**
 Lent by J. M. Sears, Boston.
 223. **The Indian and the Lily.**
 Lent by C. D. Miller, Jersey City.
 224. **The Head Dress.**
 Lent by H. H. Fay, Boston.
 225. **The Sculptor and the King.**
Bryant, Wallace, Boston.
 226. **Noon.**
Bunker, Caroline, Boston.
 227. **Study of Snowballs.** (Owned by Mrs. F. D. Cross, Providence.)
 228. **Wheat Stacks, Afternoon Sunshine.**
 229. **Goosefield.**

DEPARTMENT K.—FINE ARTS.

- Bush-Brown, Mrs. M. Lesley, New-
 burg, N. Y.
 230. Fragment of Mural Decoration for
 Music Room.
 Butler, George B.
 231. Girl with Tambourine.
 Lent by W. C. Brownell, New
 York.
 Butler, Herbert, Chicago.
 232. Hard Times.
 Butler, Howard Russell, New York.
 233. Seaweed Gatherers, Finistere, France.
 234. Church of Guadalupe, Aguas Calientes,
 Mex.
 235. Marine.
 Buttles, Mary, New York.
 236. Julie.
 237. Peasant Woman of Alsace.
 238. Cady, Henry N., Philadelphia.
 Sunset at Narragansett Pier.
 Cain, Neville, Louisville.
 239. The Satyr and the Traveler.
 Caliga, I. H., Boston.
 240. Portrait. (Owned by Robert F. Herrick,
 Brookline, Mass.)
 Cameron, Edgar S., Chicago.
 241. In the Studio.
 Candidus, Harry W. T., Munich.
 242. Landscape.
 Carl, Kate A., Paris.
 243. Head of a Man.
 Cauldwell, Leslie, Paris.
 244. A Sun Bath.
 245. A Breton Garden.
 246. A Daughter of Eve.
 Chapman, Carlton T., New York.
 247. Five O'clock at St. Ives, England.
 248. On Cape Ann.
 Lent by Mrs. John Hutton, New
 York.
 Chase, Harry.
 249. At Anchor off Scheveningen. (Owned
 by Mrs. Harry Chase, St. Louis.)
 250. The Battery Park. (Owned by Mrs.
 Harry Chase, St. Louis.)
 Chase, William M., New York.
 251. Lady in Pink.
 252. Portrait of Miss L.
 253. Alice. A Portrait.
 254. Meditation. A Portrait.
 255. Portrait of Mrs E.
 Lent by Mrs. E.
 256. Lilliputian Boats in the Park.
 Lent by R. L. Knoedler, New
 York.
 Church, F. S., New York.
 257. Knowledge is Power. (Owned by C. L.
 Freer, Detroit.)
 258. The Viking's Daughter.
 Lent by John Gellatly, New
 York.
 Churchill, W. W., Boston.
 259. Portrait.
 Clark, Rose, Buffalo.
 260. Mother and Child.
 Clark, Walter, New York.
 261. Spring.
 Clarke, Thomas Shields, Pittsburg.
 262. A Fool's Fool. (Owned by Pennsyl-
 vania Academy of Fine Arts.)
 263. Night Market, Morocco.
 264. A Gondola Girl.
 265. Portrait of Madame d'E.
- Clawson, John W., Paris.
 266. Santa Maria della Salute, Venice.
 Clements, Gabrielle D., Philadelphia.
 267. Andarina.
 Clinedinst, B. W., New York.
 268. The Water Colorist.
 269. Monsieur's Mail.
 Cobb, Arthur Murray, Giverny, France.
 270. First Snow.
 Cochran, J. G., Boston.
 271. Old Stone Stairway, Pont Aven, France.
 Coffin, Elizabeth R., Brooklyn.
 272. Hanging the Net.
 Coffin, Esther L., New York.
 273. Grapes.
 Coffin, William A., New York.
 274. A Pennsylvania Farm After a Thunder
 Shower.
 275. Moonlight in Harvest.
 276. Twilight. (Owned by John B. Ladd,
 Brooklyn.)
 277. Early Morning. (Owned by W. Sew-
 ard Webb, New York.)
 278. Evening. (Owned by J. W. Licht-
 nauer, New York.)
 279. September Breeze. (Owned by W.
 Seward Webb, New York.)
 Cohen, George W., New York.)
 280. A Tale of the Sea.
 Collins, Alfred Q., New York.
 281. Portrait of Mr. Joe Evans. (Owned
 by Mr. Joe Evans, New York.)
 Colman, Samuel, Newport.
 282. Mexican Hacienda.
 283. Mt. Tacoma from Puget Sound.
 284. The Inner Gorge of the Grand Cañon
 of the Colorado.
 Coman, Mrs. Charlotte B., New York.
 285. The Road to Town.
 286. A Stony Brook.
 Conant, Lucy S., Boston.
 287. The Orchid Meadow.
 Connah, Douglas John, New York.
 288. Douglas John Connah. (Owned by
 Mrs. John Connah.)
 Cooper, Colin C., Philadelphia.
 289. Portrait of a Lady.
 290. Portrait. (Owned by Gen. St. Clair A.
 Mulholland, Philadelphia.)
 Corner, Thomas A., Baltimore.
 291. Mother and Child.
 292. Industry.
 Corwin, Charles O., Chicago.
 293. Edge of the Clearing.
 Couse, Eanger I., Paris.
 294. My First Born.
 295. Milking Time.
 Cox, Kenyon, New York.
 296. Painting and Poetry.
 297. An Eclogue.
 298. Diana.
 299. The Pursuit of the Ideal.
 300. Music. (Owned by F. N. Finney, Mil-
 waukee.)
 301. Echo.
 302. May.
 303. Portrait of L. H. K. (Owned by Mrs.
 Kenyon Cox.)
 304. A Solo.
 305. Portrait of St. Gaudens.
 Lent by Augustus St. Gaudens,
 New York.

UNITED STATES.

306. Flying Shadows.
Lent by Stanford White, New York.
Cox, Louise (Louise H. King), New York.
307. A Rondel.
308. The Lotos Eaters.
Craig, Thomas B., New York.
309. Upland Pasture (Morning).
Cranch, Mrs. C. A., Boston.
310. Portrait of Mrs. E. D. Cranch. (Owned by Mrs. E. D. Cranch, Cambridge.)
Crane, Bruce.
311. The Harvest Field.
Lent by Andrew Carnegie.
Cunningham, J. Wilton, Paris.
312. Caught in the Briars.
313. For my Rabbits.
Curran, Charles C., New York.
314. Winter Morning in a Barnyard.
(Owned by Mr. George I. Tyson, New York.)
315. Salle de la Venus de Milo. (Owned by H. T. Shriver, New York.)
316. Sealing the Letter. (Owned by Mr. Henderson, Minneapolis.)
317. The Iris Bed. (Owned by Wm. S. Hollingsworth, New York.)
318. Early Morning in June. (Owned by Samuel T. Shaw.)
319. Winter Fog.
320. A Cabbage Garden. (Owned by Mrs. J. A. Hewlett, Brooklyn.)
321. Under the Awning.
322. A Dream.
323. A Breezy Day.
Lent by Thomas B. Clarke, New York.
324. A Corner in a Barnyard.
Lent by Thomas B. Clarke, New York.
- Dannat, Wm. T., Paris.**
325. Spanish Women.
Davis, Charles H., Mystic, Conn.
326. Abandoned.
327. Summer Morning.
328. April.
329. On the New England Coast.
330. The Valley.
331. A Winter Evening. (Owned by Thomas E. Waggaman, Washington.)
Day, Francis, New York.
332. A Table d'Hôte.
Dean, Walter L., Boston.
333. The Open Sea.
334. Peace.
335. The Seiner's Return.
Dearth, Henry J., East Hampton, L.I.
336. A Long Island Garden.
337. Autumn. (Owned by George G. Tillotson.)
- De Camp, Joseph, Boston.**
338. Carnation and Black.
De Crano, F. F., Philadelphia.
339. Mentone, France.
- De Forest, Lockwood, New York.**
340. Moonrise Among the Ruins of Palmyra.
De Haas, M. F. H., New York.
341. New England Coast.
Delachaux, Leon, Paris.
342. The Miller's Son.
343. The Mill in the Meadows.
- Dellenbaugh, Frederick S., New York.**
344. On the Moquis Cliffs, Arizona.
Deming, E. W., New York.
345. A Mourning Brave.
Denman, Herbert, New York.
346. The Trio.
Dessar, Louis P., Paris.
347. The Fishermen's Departure.
348. Evening. (Owned by Meyer Jonasson, New York.)
349. Study—French Peasant Girl's Head. (Owned by Meyer Jonasson, New York.)
Dewey, Charles Melville, New York.
350. The Prelude of Night.
351. Return of the Hay Boats.
Lent by W. T. Evans, New York.
352. Shadows of the Evening Hour.
Lent by W. T. Evans, New York.
353. The Hush of Day.
Dewing, T. W., New York.
354. Summer Twilight. (Owned by C. L. Freer, Detroit.)
355. A Musician. (Owned by C. L. Freer, Detroit.)
356. Lady in Blue. (Owned by C. L. Freer, Detroit.)
357. A Portrait. } Lent by Stanford White,
358. A Portrait. } New York.
359. Portrait of W. M. Chase.
Lent by W. M. Chase, New York.
360. The Days. (Lent by Miss A. W. Cheney and Miss Louise Cheney, South Manchester, Conn.)
Didier, Ida Joy, Allegheny, Pa.
361. Portrait.
Dielman, Frederick, New York.
362. A New York Arab.
Lent by William Semple, Louisville.
- Dillon, Julia, New York.**
363. Peonies.
- Dodson, Sarah P. Ball, Brighton, England.**
364. Saint Thekla.
365. Honey of the Hymettus.
Dohn, Pauline A., Chicago.
366. What the Stork Brought.
Donoho, G., Ruger, New York.
367. La Marcellerie.
368. Explorers. (Owned by J. Hull Brown- ing.)
- Dow, Arthur W., Ipswich, Mass.**
369. Marsh Islands.
- Dube, Mrs. Mattie, New York.**
370. Pumpkins and Onions.
Du Mond, Frank Vincent, New York.
371. Monastic Life.
372. Holy Family.
373. Christ and the Fishermen.
Dr. Mond, Fred Melville, Paris.
374. A Legend of the Desert.
Dunsmore, John Ward, Detroit.
375. Mozart.
- Duvall, Fannie E., Los Angeles, Cal.**
376. Chrysanthemum Garden in California.
377. Study of Onions.
Duveneck, Frank, Cincinnati.
378. Portrait of William Adams.
Dvorak, Frant, Chicago.
379. Mother's Pleasure.

DEPARTMENT K.—FINE ARTS.

- Eakins, Thomas, Philadelphia.**
 380. Mending the Net.
 381. Portrait of Prof. George S. Barker. (Owned by Prof. George S. Barker, Philadelphia.)
 382. The Writing Master.
 383. Portrait of a Lady. (Owned by Miss A. B. Van Buren, Detroit.)
 384. The Sculptor. (Owned by William R. O'Donovan, New York.)
 385. Portrait of Dr. Agnew. (Owned by University of Pennsylvania.)
 386. The Crucifixion.
 387. Cowboys at Home Ranch.
 388. Portrait of William D. Marks. (Owned by William D. Marks, Philadelphia.)
 389. Portrait of Dr. Gross. (Owned by Jefferson Medical College, Philadelphia.)
Eakins, Mrs. Thomas, Philadelphia.
 390. Reflection. (Owned by W. H. Macdowell, Philadelphia.)
Eaton, C. Harry.
 391. Landscape. (Owned by Henry A. Rust, Chicago.)
 392. Normandy Landscape. Lent by W. T. Evans, New York.
 393. Autumnal. Lent by J. D. Grant, San Francisco.
Eaton, Charles Warren, New York.
 394. Woods in Winter.
 395. October.
 396. Moonrise.
 397. On the Maine Coast.
Elwell, D. Jerome, Boston.
 398. Moonrise at Domberg, Zeeland, Holland. (Owned by St. Botolph Club, Boston.)
 399. Bruges, Belgium.
 400. The Moorlands, Cape Ann.
 401. Country of Calmpthout, Belgium.
Emmet, Lydia Field, New York.
 402. The Mere.
 403. Noonday. (Owned by Miss A. B. Phelps, Wilkes Barre, Pa.)
Enneking, John J., Boston.
 404. Salting Sheep.
 405. October Twilight.
 406. Autumn Afternoon.
 407. South Duxbury Clam Digger.
 408. November.
Ertz, Edward, Paris.
 409. Potato Gatherer.
Evans, E., Lehi, Utah.
 410. Harvest. (Owned by J. Rachmiel, Paris.)
Evans, Mrs. M. E., Godfrey, Ill.
 411. September Lane.
Evans, Joe, New York.
 412. The Plainfield Road.
 413. The Red Gate.
Fairchild, Lucia, Boston.
 414. Portrait of a Boy with a Hat. (Owned by Mrs. C. Fairchild.)
Faxon, Wm. Bailey, New York.
 415. Lady in Profile.
 416. Maia.
Fisher, Mark, Stockbridge, England.
 417. A Hampshire Dairy. (Owned by Mr. McCulloch, London.)
 418. Cattle Crossing a Stream.
 419. Summer Afternoon.
 420. A Small Holding.
 421. Timber Wagon, Normandy.
 422. Moonrise.
 423. Teste Valley Meadows.
 424. Sorting the Flock.
 425. Orchard, Normandy.
 426. Evening.
 427. Cows in Orchard (Winter).
Fitz, B. R.
 428. The Reflection. Lent by W. T. Evans, New York.
Flagg, Charles N., Hartford.
 429. Mark Twain. (Owned by Samuel L. Clemens, Hartford.)
Forsyth, W., Indianapolis.
 430. Edge of the Woods.
 431. In the Garden. (Owned by Carl H. Lieber, Indianapolis.)
 432. Landscape. (Owned by L. Weisenberger.)
Foss, Harriet Campbell, New York.
 433. A Flower Maker.
Foster, Ben, New York.
 434. First Days of Spring. (Owned by James T. Pettus, New York.)
 435. The Returning Flock.
 436. A Maine Hillside. (Owned by James T. Pettus, New York.)
 437. In Fontainebleau Forest. (Owned by J. F. Drummond, New York.)
Fowler, Frank, New York.
 438. Portrait. (Owned by Dr. Neftel, New York.)
 439. Portrait of Walter Shirlaw. (Owned by Walter Shirlaw, New York.)
 440. Portrait. Girl in Black.
 441. Portrait. (Owned by H. W. Goodrich, New York.)
 442. Portrait. Lady in White. (Owned by Mrs. Wm. A. Fowler, Brooklyn.)
 443. Figure Study for Ceiling, Hotel Waldorf. (1)
 444. Figure Study for Ceiling, Hotel Waldorf. (2)
 445. Figure Study for Ceiling, Hotel Waldorf. (3)
 446. Figure Study for Ceiling, Hotel Waldorf. (4)
 447. Figure Study for Ceiling, Hotel Waldorf. (5)
 448. Figure Study for Ceiling, Hotel Waldorf. (6)
 449. Figure Study for Ceiling, Hotel Waldorf. (7)
 450. Figure Study for Ceiling, Hotel Waldorf. (8)
Fowler, Mary B. O., New York.
 451. Marie.
Fraser, John A., New York.
 452. An English Spring Morning.
Freer, Frederick W., Chicago.
 453. Portrait of a Lady in Black. (Owned by the Boston Art Club.)
 454. Portrait. (Owned by Henry C. Champin, Chicago.)
 455. Gold Fish. (Owned by James C. Brooks, Chicago.)
Fry, John H., St. Louis.
 456. Labor.
Frye, Miss Gertrude, Philadelphia.
 457. Portrait of G. E. (Owned by F. Evans, Philadelphia.)

UNITED STATES.

- Gardner, Elizabeth, Paris.**
 458. Soap Bubbles. (Owned by Arthur Booth, London.)
 459. At the Water's Edge.
 Lent by W. H. Tailer, Dobb's Ferry, N. Y.
Gaugengigl, I. M., Boston.
 460. The Rehearsal.
 461. The Manuscript. (Owned by Wm. A. Slater, Norwich, Conn.)
 462. The Hat. (Owned by Wm. F. Weld, Boston.)
 463. The Love Song. (Owned by Tavern Club, Boston.)
Gaul, Gilbert, New York.
 464. Charging the Battery.
 Lent by W. T. Evans, New York.
 465. Silenced.
 Lent by W. M. Chase, New York.
Gay, Edward, Mt. Vernon, N. Y.
 466. Mother Earth.
Gay, Walter, Paris.
 467. Charity.
 468. A Gregorian Chant.
 469. A Mass in Brittany.
 470. Dominican Monk.
Gifford, R. Swain, New York.
 471. The Cove Road. (Owned by the Detroit Club.)
 472. Moorlands.
 473. The Seaweed Gatherers.
 474. Over the Summer Sea.
 475. Telegraph Station at Sandy Hook.
 476. Salt Works Padan Aram.
 477. The Rock of Gibraltar.
 Lent by Mrs. H. E. Lawrence, New York.
 478. Landscape.
 Lent by J. B. Wheeler, New York.
 479. Autumn. } Lent by Thomas B.
 480. Nashawena. } Clarke, New York.
 481. Sand Dunes.
 Lent by Mrs. Robt. Carter, New York.
Gill, Mariquita, Paris.
 482. A Grey Day--Giverny.
 483. A Midsummer Morning--Giverny.
Gill, Rosalie Lorraine, New York.
 484. Twilight on St. Ives Bay.
 485. Portrait of Miss Inglis.
Gilman, B. F., Philadelphia.
 486. Portrait.
Goldman, Martha, Pittsburg.
 487. Study. Head.
Gottwald, F. C., Cleveland.
 488. Sunday on the Docks.
 489. Along the Docks.
Graves, Abbott, Boston.
 490. Poppies.
Grayson, Clifford P., Philadelphia.
 491. A Rainy Day at Pont Aven.
 492. November. (Owned by the Art Club, Philadelphia.)
 493. Idle Hours.
Green, C. A. Brooklyn.
 494. Peonies
Green, Frank Russell.
 495. My Sweetheart.
 Lent by Thomas B. Clarke, New York.
Greene, Lillian, Boston.
 496. A Brittany Landscape.
Greenwood, Joseph H., Worcester.
 497. Autumn Oaks.
Grenet, Edward, Levallois-Perret.
 498. Evening Harmony
 499. Grandmother's Return.
 500. Forgotten.
 501. Portrait Study.
Gross, P. A., Paris.
 502. Essegney near Charmes, Vosges.
 503. Road to the Spring.
 504. A Rainy Day.
Grover, Oliver Dennett, Chicago.
 505. Thy Will be Done.
Gutherz, Carl, St. Paul.
 506. Light of the Incarnation.
 507. Arcessita ab Angelis.
 508. Temptation of St. Anthony.
Hale, Ellen Day, Boston.
 509. Under the Vine.
 510. Bessy.
Hale, Philip, Paris.
 511. Old Woman Reading.
Hallowell, Maria, West Medford, Mass.
 512. Portrait.
 513. Portrait. (Owned by Miss A. N. Hallowell.)
Hamilton, E. W. D., Boston.
 514. Evening.
 515. Landscape.
Hamilton, John McLure, London.
 516. The Rt. Hon. W. E. Gladstone at Downing St.
 517. The Knitting Lesson.
Hammer, John J., New York.
 518. Spring Flowers.
Hardie, Robert Gordon, New York.
 519. Portrait of the Artist's Wife.
Harper, W. St. John, Easthampton, L. I.
 520. Autumn, Easthampton.
 Lent by W. T. Evans, New York.
Harris, Charles X., New York.
 521. The Mowers. (Owned by Frederick James, New York.)
Harrison, Alexander, Paris.
 522. In Arcadia.
 523. The Bathers.
 524. Misty Morning.
 525. Marine.
 526. Twilight. (Lent by St. Louis Museum of Fine Arts.)
Harrison, Birge, Paris.
 527. The Surprise (in the Forest of Compeigne).
 528. The Return of the Mayflower.
Hartwich, Herman, Munich.
 529. Bleachery in Lombardy.
Harwood, J. T., New York.
 530. Preparing Dinner.
Hasbrook, D. F., New York.
 531. A Winter Morning in the Catskills.
 (Owned by E. W. Gillett, Chicago.)
Haskell, Ida C., New York.
 532. Mother Love.
Hassam, Child, New York.
 533. Autumn Landscape.
 534. On the Way to the Grand Prix.
 535. Midsummer Morning.
 536. Cab Station, Rue Bonaparte, Paris.
 537. Snowy Day on Fifth Avenue.

DEPARTMENT K.—FINE ARTS.

538. Indian Summer; Madison Square.
Hatfield, J. H., Canton Jet, Mass.
539. The Doll's Bath.
540. A Letter from Papa.
Hayden, Charles H., Boston.
541. A Quiet Morning, October.
542. Cattle and Landscape.
543. Pasture Land, Connecticut.
Hayden, Edward Parker.
544. October Sunlight.
Haynes, C. Coventry.
545. At your Home.
- 545½. Poplars.
546. Portrait. (Owned by Mrs. F. W. Haynes.)
Healy, G. P. A., Chicago.
547. Portrait of Adolphe Thiers. (Owned by Newberry Library, Chicago.)
Heberer, Charles, St. Louis.
548. End of November.
Helmold, Adele von, Philadelphia.
549. Marigolds.
Henry, Edward L., New York.
550. The County Fair. (Owned by W. F. Havemeyer, New York.)
551. The Wedding Day. (Owned by Mr. Dickinson, Mt. Holyoke, Mass.)
Herter, Albert, New York.
552. Portrait of Mrs. H.
Hess, Lydia Purdy, Chicago.
553. Portrait of Miss E. H. (Owned by Miss Ena Hutchison, Mineral Point, Wis.)
Hetzel, George, Pittsburg.
554. Wood Scene.
555. Study from Nature.
Hill, Roswell S., New York.
556. Young Girl Reading.
Hipple, Sarah Levis, Philadelphia.
557. Sardine Fishing Boats. (Owned by Mrs. F. K. Hipple, Philadelphia.)
558. The Road to Puteaux. (Owned by Mrs. F. K. Hipple, Philadelphia.)
Hitchcock, George.
559. Tulip Culture.
560. The Scarecrow.
Hitchcock, Lucius, Paris.
561. Summer.
Hodgkins, Belle D., Salem.
562. Low Tide at Annisquam.
Holman, Frank, Paris.
563. Venice.
564. Young Warrior.
Holme, Lucy D., Philadelphia.
565. A Holiday Occupation.
Homer, Winslow, Scarboro, Maine.
566. Dressing for the Carnival.
567. A Great Gale.
568. Camp Fire.
569. Eight Bells.
570. March Wind.
571. Coast in Winter.
572. The Two Guides.
The above seven paintings were lent by Thomas B. Clarke, New York.
573. Sailors Take Warning (Sunset).
574. Hound and Hunter.
575. Lost on the Grand Banks.
576. The Fog Warning.
577. Herring Fishing.
578. Coast in Winter.
Lent by John G. Johnson, Philadelphia.
579. Sunlight on the Coast.
Lent by John G. Johnson, Philadelphia.
- Horsfall, Bruce, Clinton, Iowa.**
580. The Musical Hour.
Hovenden, Thomas, Plymouth Meeting, Pa.
581. Breaking Home Ties. (Owned by George Harrison, Devon, Pa.)
582. Bringing Home the Bride.
583. When Hope was Darkest.
Howe, William H., Paris.
584. Return of the Herd.
585. Norman Bull.
586. Morning, Karton Hof Meadows, Holland.
587. Early Start to Market, Holland.
Howes, Edith M., Boston.
588. In the Orchard.
Howland, A. C., New York.
589. Fourth of July Parade. (Owned by W. H. Fuller, New York.)
Huntington, Daniel, New York.
590. The Goldsmith's Daughter.
591. Elise.
592. Portrait of Hon. Seth Low.
593. Portrait of Elliott F. Shepard, Jr.
Inness, George, Montclair, N. J.
594. Sundown in the Lane.
595. Threatening.
596. End of the Shower.
597. Nine O'clock.
598. Sunny Autumn Day.
599. Winter Morning.
600. A Gray, Lowery Day.
601. White Mountain-Valley.
602. September Afternoon.
603. Twilight.
604. Near Marshfield.
605. Sunburst.
606. Millpond.
607. Delaware Valley.
The above fourteen paintings were lent by Thomas B. Clarke, New York.
608. A Day in June.
Ipsen, Ernest, Boston.
609. Interior of a New England Blacksmith Shop.
Irwin, Benoni, New York.
610. Sweet Sixteen.
611. Portrait of Herbert Herkomer.
Isham, Samuel, New York.
612. Portrait of a Lady.
Ives, Percy, Paris.
613. Brittany Fishermen.
James, Frederick, New York.
614. An Impromptu Affair in the Days of "The Code."
Jamison, Henrietta L., Columbus.
615. The Lanterns.
Jenkins, H. T., Philadelphia.
616. Landscape.
617. Still Life.
Johns, Laura A., New York.
618. Apple Trees in Sunlight. (Owned by Mrs. H. C. Johns, Decatur.)
Johnson, Eastman, New York.
619. Portrait of Dr. McCosh.
Lent by Alex. Maitland, New York.
620. The Nantucket School of Philosophy.
Lent by E. D. Adams, New York.

UNITED STATES.

621. The Cranberry Harvest, Nantucket Island.
Lent by Auguste Richard, New York.
622. Portrait of a Girl.
Lent by D. L. Einstein, New York.
623. Two Men.
624. My Portrait.
Johnston, Humphreys, Paris.
625. Study in a Granada Garden.
626. Study of Breton Peasants (Late Afternoon).
627. Moorish Fountain in the Church of Santa Maria del Alhambra.
Jones, Francis C., New York.
628. Exchanging Confidences.
Lent by Thomas B. Clarke, New York.
629. On the White Sand Dunes.
Lent by John Gellattly, New York.
630. The Favorite Grandchild.
Jones, H. Bolton, New York.
631. Spring.
632. The Flax Breaker.
Lent by R. J. Menefee, Louisville.
- Kappes, Alfred.**
633. Rent Day.
Lent by Thomas B. Clarke, New York.
634. Tattered and Torn.
Lent by Boston Art Club.
Kavanagh, John, Cleveland.
635. Washer-women.
Keith, Mrs. Dora Wheeler, New York.
636. Portrait of Lawrence Hutton. (Owned by Lawrence Hutton, New York.)
Keith, William, San Francisco.
637. Autumn Sunset.
Keller, Charles F., Munich.
638. Canal at Schleisheim, near Munich.
Kellogg, Alice D., Chicago.
639. Intermezzo.
640. The Mother.
Kendall, Wm. Sargeant, New York.
641. The Glory of Fair Promise.
642. Saint Yves, Pray for Us.
Ketcham, Susan M., New York.
643. Portrait of a Lady.
King, James S., Upper Montclair, N. J.
644. Evening Glow.
- Knight, Arthur, Milwaukee.**
645. Moonrise in Brittany.
Knight, D. Ridgway, Paris.
646. Hailing the Ferry. (Owned by the Academy of Fine Arts, Philadelphia.)
Koehler, Robert, New York.
647. The Strike.
648. The Carpenter's Family.
Köhler, Robert, New York.
649. At the Cafe.
Koopman, August B., New York.
650. Asking a Blessing.
651. The Orphans.
652. Dreaming of One Afar.
Kronberg, Louis, Boston.
653. Behind the Footlights.
LaFarge, John, New York.
654. Venetian Guitar Player.
655. Visit of Nicodemus to Christ.
656. Study of a Boy's Head.
Lent by Edward W. Hooper, Cambridge, Mass.
657. Half of the Wise Men From the East
Lent by the Museum of Fine Arts, Boston.
- Lamb, Ella Condie, New York.**
658. The Advent Angel.
Lamb, F. M., Houghton, Mass.
659. End of the Trail.
Lambert, John, Jr., Philadelphia.
660. Portrait. (Owned by Mrs. Lambert, Philadelphia.)
661. A Commissioner.
662. Landscape, Midday.
Lampert, Emma E., Rochester.
663. Behind the Dunes.
664. A Hillside in Picardy.
Lathrop, Clara W., Northampton.
665. At the Flower Market.
Lee, Laura, Boston.
666. Retrospection.
Leigh, William R., Munich.
667. End of the Play.
- 667½. A New Acquaintance.
Loomis, Chester, Englewood, N. J.
668. Memoria.
669. Hester.
Lorenz, Richard, Milwaukee.
670. Alone.
Loring, Francis W., Florence.
671. Great Bridge at Chioggia.
Low, Will H., New York.
672. A Portrait.
Lent by W. T. Evans, New York.
673. Love Disarmed.
Lent by Gardiner G. Hubbard, Washington, D. C.
674. A Woodland Glade.
675. In An Old Garden.
Lent by Dr. C. B. Kelsey, New York.
- Lownes, Anna, Philadelphia.**
676. The Raven.
Lucas, A. P., Paris.
677. Music.
Lutz, Lewis C., Cincinnati.
678. Portrait of J. H. Gest. (Owned by Mrs. J. H. Gest.)
Lyman, Joseph, New York.
679. Sand Dunes at Annisquam, Mass.
680. Early Snow in the Adirondacks.
Macomber, M. L., Waverly, Mass.
681. Love Awakening Memory. (Owned by Elizabeth Howell, Boston.)
682. The Annunciation. (Owned by D. P. Kimball, Boston.)
MacDowell, Elizabeth, Philadelphia.
683. Day Dreams. (Owned by Walter MacDowell, Philadelphia.)
Mac Monnies, Mary Fairchild, Paris.
684. June Morning.
Lent by St. Louis Museum of Fine Arts.
685. Tea al Fresco.
Major, Ernest L., Boston.
686. Youth.
687. St. Genevieve.
688. Portrait. (Owned by Mrs. S. Clark, Williamstown.)

DEPARTMENT K.—FINE ARTS.

- Marr, Carl, Munich.**
 689. Summer Afternoon. (Owned by Mrs. Hearst, Washington.)
 690. The Flagellants.
Martin, Homer D., New York.
 691. Behind the Dunes, Lake Ontario.
 692. Mussel Gatherers at Villerville, Normandy. (Owned by F. L. Gunther, New York.)
 693. Old Manor at Cricquebœuf. (Owned by Dr. D. L. Stimson, New York.)
 694. Head Waters of the Hudson.
 Lent by Thomas B. Clarke, New York.
Mathews, Arthur F., San Francisco.
 695. Judith.
Maynard, George Willoughby, New York.
 696. Civilization. (Owned by the National Academy of Design, New York.)
 697. Portrait of F. D. Millet. (Owned by F. D. Millet, New York.)
 698. Flora.
 699. Pomona.
Maynard, Guy F., Chicago.
 700. Looking Out. (Owned by P. C. Maynard, Chicago.)
 701. Dutch Interior. (Owned by P. C. Maynard, Chicago.)
McComb, R. Lee, Paris.
 702. Summer Time.
McCormick, M. Evelyn, San Francisco.
 703. Afternoon, Old San Luis Rey Mission, Cal.
 704. Morning at Giverny, France.
McEwen, Walter, Paris.
 705. Judgment of Paris. (Owned by Albert A. Munger, Chicago.)
 706. The Witches.
 707. The Absent One. (All Soul's Day.)
 708. Telling Ghost Stories.
McIlhenney, C. Morgan, Shrub Oak, N. Y.
 709. On the Beach.
Meeks, Eugene, Florence.
 710. Macaroni Hot.
 711. Ready for the Chase.
Melchers, Gari, Paris.
 712. Communion.
 713. The Sermon. (Owned by Potter Palmer, Chicago.)
 714. The Pilots.
 715. The Nativity.
 716. Skaters.
 717. Portrait of Mrs. H.
 718. Married.
Merritt, Mrs. Anna Lea, Andover, Hampshire, England.
 719. Love Locked Out.
 720. Portrait of Mrs. Reginald De Koven. (Owned by Mrs. Joseph Lea, Philadelphia.)
Metcalf, W. L., New York.
 721. Tunisian Market.
 Lent by H. R. Astor Carey.
 722. Road to the Village, Normandy.
 Summer Twilight.
Meteyard, T. B., Paris.
 723. Iris Meadows.
 724. Road at Giverny.
Miller, Charles H., New York.
 725. The East River, New York.
 726. A Gray Day on Long Island.
Millet, F. D., New York.
 727. Antony Van Corlaer, the Trumpeter.
 728. Old Harmonies.
 729. Sweet Melodies. (Owned by C. L. Freer, Detroit.)
 730. Rook and Pigeon.
 Lent by H. McK. Twombly, New York.
 731. A Difficult Duet.
 Lent by Mrs. C. M. Raymond, New York.
 732. At the Inn.
 Lent by Union League Club, New York.
 733. Lacing the Sandal.
 Lent by Thomas B. Clarke, New York.
 734. The Window Seat.
 Lent by Charles Fairchild, Boston.
Minor, Robert C., New York.
 735. Autumn.
 736. Evening.
 737. The Close of Day.
 Lent by W. T. Evans, New York.
Moeller, Louis.
 738. Stubborn. }
 739. Searching. }
 Lent by Thomas B. Clarke, New York.
Moore, H. Humphrey, Paris.
 740. Japanese Musicians.
Moran, P. See 1153½.
Moran, Thomas. See 1152, 1153.
Moran, Edward, New York.
 741. The White Squadron's Farewell Salute to Commodore John Ericsson.
 742. The First Ship Entering New York Harbor.
 743. Life Saving Patrol, New Jersey Coast.
Moran, Leon, New York.
 744. Back from the Postoffice.
Morris, Jennie H., Moorestown, N. J.
 745. A Corner in a Turkish Bazaar.
 746. Still Life.
Mowbray, H. Siddons, New York.
 747. Rose Harvest.
 Lent by T. Helman, New York.
 748. Arcadia.
 Lent by W. T. Evans, New York.
 749. Scheherazade. (Arabian Knights.)
 Lent by Thomas B. Clarke, New York.
 750. The Evening Breeze.
 Lent by Thomas B. Clarke, New York.
Muhrman, Henry, London.
 751. The Two Trees.
Munger, Gilbert, Paris.
 752. The Rising Moon.
Munsell, Albert H., Boston.
 753. The Sea.
 754. Danger Ahead.
 755. Beacon Hill in Winter.
Murphy, J. Francis, New York.
 756. November Grays.
 757. The Hazy Morn.
Needham, Charles Austin, New York.
 758. Near Factory Hollow, Turner's Falls, Massachusetts.
 759. Mott Haven, Canal, New York City.

UNITED STATES.

760. Street in New York City.
Nehlig, Victor.
761. Pocahontas.
Nettleton, Walter, Finistere, France.
762. Approach of Harvest Time.
763. December Sunshine.
764. Watching for the Return of the Fishing Fleet.
Teasel Gatherer.
765. Teasel Gatherer.
766. Left in Charge of the Farmyard.
767. A Dark Interior.
Newcomb, Mrs. Marie Guise, New York.
768. Sheep in the Clearing.
Newman, Carl, Philadelphia.
769. A Study. (Owned by Chas. M. Chabot.)
Nicoll, J. C., New York.
770. Sunlight on the Sea.
771. Will it Rain To-morrow?
Niles, Edward Glover, Boston.
772. Portrait.
Norcross, Eleanor, Paris.
773. In My Studio.
Norton, S. Mary, Boston.
774. In the Locomotive Cab.
775. A Tea Party.
Norton, William E., London.
776. Moonlight on the River. (Owned by Williams & Everett, Boston.)
777. Return of the Herring Fleet, Holland.
778. A Moment's Rest.
779. Off the Dutch Coast.
780. Mid Channel.
Nourse, Elizabeth, Paris.
781. The Reader.
782. Good Friday, Rome.
783. A Family Meal.
Ochtman, Leonard, New York.
784. Night.
785. Harvesting by Moonlight.
786. Along the Mianus River.
Palmer, Walter L., Albany.
787. Autumn Morning Mist Clearing Away. (Owned by John G. Myers, Albany.)
788. An Early Snow.
789. January.
Lent by Thomas B. Clarke, New York.
- Pape, Frederic L. M., Paris.**
790. Site of Ancient Memphis.
Parrish, Stephen, Philadelphia.
791. A Mountain Road.
792. An Orchard.
793. Winter Sunset, Cape Cod.
794. Winter in New Hampshire.
795. Evening.
Parshall, DeWitt, Paris.
796. The Cliffs of Ayerne.
Parsons, Orrin Sheldon, New York.
797. Tennis.
798. Lady in Black. (Owned by J. L. M. Hunt, New York.)
Parton, Arthur, New York.
799. Evening After the Rain. (Owned by George I. Seney.)
800. In the Month of May.
Lent by W. T. Evans, New York.
- Pattison, James Wm., Jacksonville, Ill.**
801. Sheep.
Pauli, Richard (deceased).
802. Sunset in New Jersey. (Owned by Mrs. Pauli, Leonia, N. J.)
- Paulus, Francis P., Munich.**
803. A Rainy Day.
Paxton, Wm. M., Boston.
804. An Idyl.
Pearce, Charles Sprague, Auvers Sur Oise, France.
805. Mother and Child. (Owned by Hon. Lewis Emery, Bradford, Pa.)
806. The Annunciation.
807. The Shepherdess.
808. A Village Funeral (Brittany).
809. Portrait of Mrs. P.
810. Portrait of Mrs. P.
Peck, Orrin, Arcis Strasse, Munich.
811. Love's Token. (Owned by Mrs. P. A. Hearst, Washington.)
- Peixotto, George D. Maduro, Paris**
812. Portrait of a Child. (Owned by Senator J. P. Jones, California.)
- Penfold, Frank C., Buffalo.**
813. Herring Season, Pas de Calais.
Peralta, S. B. de, Boston.
814. In the Lilies.
Perry, Lilla C., Boston.
815. Portrait of a Child. (Owned by Roger Wolcott, Boston.)
816. Portrait of Alice.
817. Child in a Window.
818. Child with Violoncello.
819. Little Angèle.
820. Reflection.
821. An Open Air Concert.
Perry, Roland Hinton, Paris.
822. Portrait of Mrs. Perry.
- Peters, Clinton, Paris.**
823. Portrait of Dr. George J. Bull. (Owned by Dr. George J. Bull, Paris.)
824. Portrait of Mlle. N. C.
Peyraud, F. C., Chicago.
825. Evening.
826. Autumn Morning.
Phelps, Helen Watson, New York.
827. Abandon.
Picknell, William L., New York.
828. Sunday Morning.
- 428a. Early Morning.
829. The Road to Concarneau.
Lent by Thomas B. Clarke, New York.
830. The Edge of Winter.
Lent by F. A. Hammond, New York.
- Pierce, Charles F., Boston.**
831. A New England Pasture.
Platt, Charles A., New York.
832. Winter Landscape.
833. Early Spring.
Poore, H. R., Philadelphia.
834. The Bridge.
835. Nativity.
Pritchard, J. Ambrose, Boston.
836. Prayer.
Putnam, Sarah G.
837. Portrait. (Owned by Elizabeth R. Hooper, Boston.)
- Ramsdell, F. Winthrop, Paris.**
838. Twilight at Grèz. (Owned by T. J. Ramsdell, Manistee, Mich.)
839. Portrait of Mrs. Reynolds. (Owned by T. J. Ramsdell.)
Raught, John Willard, New York.
840. The Highway Brittany.
841. Gorse Cutters, Brittany.

DEPARTMENT K.—FINE ARTS.

- Rehn, F. K. M., New York.**
 842. Where Waves and Sunshine Meet.
Reid, Robert, New York.
 843. Vision of Sta. Angela d'Angant.
 844. The Red Flower.
 845. Portrait of Little Miss S. (Owned by Mrs. L. H. Stevens, New York.)
 846. Her First Born.
Reinhart, C. S., New York.
 847. Awaiting the Absent.
 848. Washed Ashore.
Rice, Wm. M. J., New York.
 849. Portrait.
 850. Portrait.
 851. Landscape, Evening Clouds.
Richards, Samuel, Denver.
 852. Blissful Hours. (Owned by David Gebhart, Dayton, Ohio.)
 853. The Hour of Prayer.
 Lent by Mrs. L. Richards, Denver.
Richards, William T., Newport.
 854. February. (Owned by Edward H. Coates, Philadelphia.)
 855. Old Ocean's Gray and Melancholy Waste. (Owned by Edward H. Coates, Philadelphia.)
Richardson, F. H., Boston.
 856. Breton Widow at Prayer.
Robbins, L. Lee, Paris.
 857. My Portrait.
 858. My Mother's Portrait.
 859. Before the Looking Glass.
Robins, Richard, Paris.
 860. Decorative Panel.
Robinson, Theodore, Giverny, France.
 861. The Layette.
 862. Winter Landscape.
 Lent by J. M. Lichtenauer, New York.
 863. Roman Fountain.
Rolshoven, Julius, Paris.
 864. A Spanish Dancer.
 865. Hall in a Doge's Palace, Venice.
 866. Two Types, Sotto Marina, near Venice.
Rook, Edward F., Paris.
 867. Moonrise (Normandy).
Rose, Guy, New York.
 868. The End of the Day.
 869. Potato Gatherers.
 870. Food for the Laborers.
Rosenthal, Toby, Munich.
 871. A Dancing Lesson of Our Grandmothers.
Rudell, P. E., Greenwich, Conn.
 872. A November Day.
 873. Autumn.
Ryder, Henry Orme, Auburndale, Mass.
 874. Old Breton Farmhouse. (Evening).
Sargent, John S., London.
 875. Mother and Child. (Owned by Edward Davis.)
 876. Portrait of Ellen Terry as Lady Macbeth. (Owned by Henry Irving, London.)
 877. Portrait.
 878. Study of an Egyptian Girl.
 879. Portrait of Mrs. Inches.
 880. Portrait. (Owned by F. S. Pratt, Worcester, Mass.)
881. Portrait.
 Lent by Augustus St. Gaudens, New York.
 882. Portrait.
 Lent by Mr. Dunham, New York.
 883. Portrait.
 Lent by E. F. Shepard, New York.
Sartain, Emily, Philadelphia.
 884. Marie.
Sartain, Wm., New York.
 885. Sand Dunes of Annisquam.
 886. Nubian Sheik.
Schilling, Alexander, New York.
 887. A Day in Spring. (Owned by Alexis Ludwig, Leonia, N. J.)
 888. Landscape. (Owned by A. Ludwig, Leonia, N. J.)
Schwill, William, Munich.
 889. Nearer, My God, to Thee.
Scott, Frank Edwin, Paris.
 890. Parisian Street Scene.
Scott, Jeannette, Paris.
 891. Hollyhocks.
Senat, Prosper L., Philadelphia.
 892. On the Nile near Beni Hassan.
 893. In the Gulf of Ajaccio.
Sewell, Mrs. Amanda Brewster, New York.
 894. Pleasures of the Past.
 895. Sappho.
 896. Portrait of Mrs. Boudinot Keith. (Owned by Mrs. J. M. Wheeler, New York.)
 897. Washing Place in the Gatinais.
 898. Portrait of Mother and Son.
 899. A Sylvan Festival.
 900. By the River.
Sewell, Robert, V. V., New York.
 901. Diana Hunting.
 902. Boys Bathing.
 903. Winter.
 904. In Shanty Town.
 905. Sea Urchins.
Sharp, J. H., Cincinnati.
 906. Going to the Race.
Shepley, Annie B., New York.
 907. The Wonderful Story.
Sheppard, Warren, Brooklyn.
 908. The Restless Sea. (Owned by T. S. Fassett, Tonawanda, N. Y.)
Shields, Thomas W., Brooklyn.
 909. Cavalier, Time of Louis XIII.
Shirlaw, Walter, New York.
 910. Tuning the Bell.
 911. Sheep Shearing in the Bavarian Highlands.
 912. Rufina. (Owned by Century Association, New York.)
Shurtleff, R. M., New York.
 913. Looking East at Sunset.
 914. In Autumn Woods.
Simmons, Edward E., New York.
 915. Early Moonlight Upon Bay St. Ives.
 916. Darby and Joan.
 917. The Carpenter's Son.
Singer, Winaretta, Paris.
 918. Spring Study.
Slade, Emily, New York.
 919. Portrait of Miss C. C. C.

UNITED STATES.

920. **Smedley, W. T.**
 Embarrassment. Lent by Thomas B. Clarke, New York.
Smillie, George H., New York.
 921. Mill Pond at Ridgefield, Conn.
 922. A Lush Place. (Owned by Washington Wilson, New York.)
 923. From West Mountain, Conn.
Smith, De Cost, New York.
 924. Sioux Lovers. (Owned by E. Reuel Smith, New York.)
 925. Driven Back.
Smith, E. Boyd, Auvers Sur Oise, France.
 926. Return From the Fields.
Smith, Frank Eugene, Munich.
 927. Portrait of My Brother. (Owned by F. L. Smith, New York.)
Smith, Henry P., New York.
 928. Landscape at Waterford, Conn.
 929. Old Oaks at Waterford. (Owned by Latham A. Fish, Brooklyn.)
Smith, J. Francis, St. Louis.
 930. Young Girl of Feuillée.
Sonntag, Wm. L., New York.
 931. Mt. Jefferson and Mt. Adams, White Mountains.
Steele, T. C., Indianapolis.
 932. On the Muscatatuck.
 933. September.
Stephens, Alice Barber, Philadelphia.
 934. Rainy Day Effect in Philadelphia.
 935. Harvesting on the Meadow.
Stewart, Jules L., Paris.
 936. Baptism.
 937. On the Yacht Namouna, Venice, 1890. (Owned by Mrs. Henry P. Borie, Philadelphia.)
 938. Venice. (Owned by James Gordon Bennett, Paris.)
 939. Portrait of the Viscountess de Gouy d'Arcy. (Owned by the Viscountess de Gouy d'Arcy, Paris.)
 940. Portrait of the Baroness Benoist Mechin. (Owned by the Baron Benoist Mechin, Paris.)
 941. The Hunt Ball. (Owned by Essex Club, Newark.)
Stokes, F. W., Philadelphia.
 942. The Orphans.
Story, Julian, Paris.
 943. Mlle. De Sombreuil (Episode of the Revolution).
 944. Portrait of My Father.
 945. Portrait of Mme. Eames Story.
Strickler, John R., Brooklyn
 946. Interrupted.
Stone, J. M., Boston.
 947. Leukopis.
 948. A Summer Dream.
Sword, J. B., Philadelphia.
 949. Off the Scent.
Taggart, George, Watertown, N. Y.
 950. Portrait.
Tarbell, Edmund C., Boston.
 951. Girl and Horse.
 952. In the Orchard.
 953. Portrait.
Thayer, Abbott H., Scarboro, N. Y.
 954. Virgin Enthroned.
 Lent by J. M. Sears, Boston.
 955. Portrait of a Lady.
 Lent by Miss C. F. Stillman, New York.
 956. Brother and Sister.
 Lent by A. A. Carey, Boston.
Theriat, C. J., Paris.
 957. Young Girl Spinning (Biskra).
 958. An Arab Goat Herd.
 959. Banks of the Aïn Mili.
 960. Waiting for Supper.
 961. Path in the Oasis of Briskra.
Thomas S. Seymour, Paris.
 962. An Innocent Victim.
Thompson, Wordsworth, New York.
 963. The Deserted Inn.
 964. In the Sweet Summer Time.
 Lent by George H. Babcock, Plainfield, N. J.
Thouren, Henry, Philadelphia.
 965. A Precious Bit.
 966. Up Hill. (Owned by Miss Moss, Philadelphia.)
 967. Resting. (Owned by Mrs. E. A. Thouren, New York.)
 968. Etruria.
 969. A Rainy Prospect. (Owned by Howard Hancock, Philadelphia.)
 970. Patches—Soup. (Owned by Caleb Cresson, Philadelphia.)
Throop, Frances Hunt, New York.
 971. Spring Carnations.
 972. Portrait of a Lady.
Tiffany, Louis C., New York.
 973. Market at Nuremberg.
 974. Market at Nuremberg.
Toasperm, Otto, New York.
 975. Music.
Tolman, Stacy, Boston.
 976. The Etcher.
Tompkins, Clementina M. G., New York.
 977. A Beginner in Art.
Tompkins, F. H., Boston.
 978. Mother and Child. (Owned by Boston Art Club.)
 979. Good Friday.
Towner, Flora L., Albany.
 980. Portrait.
Tracy, John M., Hempstead, L. I.
 981. Southern Field Trails, 1891. (Owned by C. Klackner, New York.)
Trego, William T., North Wales, Pa.
 982. The Pursuit.
 Lent by J. B. Wheeler, New York.
Trotter, Mary K., New York.
 983. Lamplight.
 984. Daphne.
Tryon, D. W., New York.
 985. Autumn. (Owned by C. L. Freer, Detroit.)
 986. Sunset at Sea. (Owned by C. L. Freer, Detroit.)
 987. Rising Moon, Autumn. (Owned by C. L. Freer, Detroit.)
 988. Springtime. (Owned by C. L. Freer, Detroit.)
 989. Morning. (Owned by John Newell, Chicago.)
Tryon, D. W., New York.
 990. Starlight.
 Lent by Thomas B. Clarke, New York.
 991. Night.
 Lent by Thomas B. Clarke, New York.

DEPARTMENT K.—FINE ARTS.

992. October.
Lent by Thomas B. Clarke,
New York.
993. Winter Evening.
Lent by Thomas B. Clarke,
New York.
994. Evening.
Lent by Thomas B. Clarke,
New York.
995. The Rising Moon.
Lent by Charles L. Freer, De-
troit.
996. A Winter Afternoon.
997. December—A Salt Marsh.
Turner, C. Y., New York.
998. The Coppersmith.
999. John Alden's Letter.
1000. The Days That Are No More.
1001. Saw Wood and Say Nothing
1002. Pride of the Farm.
1003. Washing Day.
1004. The Grand Canal, Dordrecht.
Lent by John Taylor Johnston,
New York.
1005. Courtship of Miles Standish.
Lent by Henry C. Howells,
Flushing, L. I.
1006. Afternoon Tea.
Lent by Chester W. Chapin,
New York.
1007. Gossips.
Lent by Thomas B. Clarke,
New York.
1008. On the Beach at Easthampton.
Lent by W. M. Chase, New
York.
Turner, Ross, Boston.
1009. Moonlight.
Twachtman, J. H., Greenwich, Conn.
1010. Autumn Shadows.
1011. Winter.
1012. Brook in Winter.
1013. The Brooklyn Bridge. Chas. Scrib-
ner's Sons, New York.
1014. Decorative Landscape.
Tyler, Bayard H., New York.
1015. Waiting.
Tyler, James G., New York.
1016. Norman's Woe. (Owned by J. M.
Jones, New York.)
Ulrich, Chas. F., Munich.
1017. An Italian Idyl.
1018. In the Land of Promise.
Lent by W. T. Evans, New
York.
1019. Glass Blowers.
Lent by Thomas B. Clarke,
New York.
Vail, Eugene L., Paris.
1020. On the Thames.
Van Boskerk, Robert W., New York.
1021. A Rhode Island River.
1022. The Hackensack Meadows.
Van Boskerk, R. W., New York.
1023. Sand Road from the Sea. (Owned
by H. R. C. Watson, New York.)
Van Briggie, A., Cincinnati.
1024. Portrait of Mrs. Charity Van Briggie.
Vanderpoel, J. H., Chicago.
1025. Summer Morning in the Orchard.
1026. Portrait of a Lady.
1027. Twilight Reverie.
1028. Blessed are They that Mourn.
1029. Weary. (Owned by C. L. Hutchin-
son, Chicago.)
Van der Weyden, Harry, Paris.
1030. Katwijk Herring Boats.
Van Elten, Kruseman, New York.
1031. Late Autumn.
Van Gorder, L. E., New York.
1032. The Mall Terrace, Central Park.
Vedder, Simon Harmon, Paris.
1033. Head of a Young Girl.
1034. Indian Head.
Vedder, Elihu, Rome.
1035. Delilah.
Lent by Col. J. G. Moore, New
York.
1036. Samson.
Lent by Col. J. G. Moore, New
York.
1037. Morning.
Lent by J. B. Wheeler, New
York.
1038. A Venetian Model.
Lent by Davis Johnson, New
York.
1039. The Cup of Love.
Lent by Mrs. A. F. Rondebush,
New York.
1040. The Young Marsyas.
Lent by Mrs. A. F. Rondebush,
New York.
1041. A Soul in Bondage.
Lent by Mrs. A. F. Rondebush,
New York.
1042. In the Lair of the Sea Serpent.
Lent by the Museum of Fine
Arts, Boston.
1043. The Roe's Egg.
Lent by Martin Brimmer, Bos-
ton.
1044. The Fisherman and the Genie.
Lent by Martin Brimmer, Bos-
ton.
Vezin, Fred, Munich.
1045. Dogs.
1046. Boys in a Boat.
Vincent, H. A., Chicago.
1047. Fields in October.
Vinton, Frederick P., Boston.
1048. Portrait of a Lady.
1049. Portrait of Augustus Flagg. (Owned
by Augustus Flagg, Boston.)
1050. Portrait of Theodore Chase. (Owned
by Theodore Chase, Boston.)
1051. Portrait of C. C. Langdell.
Volk, Douglas, Minneapolis.
1052. Mending the Canoe.
1053. Portrait of Madam X.
1054. Puritan Girl.
Lent by Thomas B. Clarke,
New York.
Vonnoh, Robert W., Philadelphia.
1055. Bad News.
1056. Early Morning.
1057. November.
1058. Viola.
1059. Moist Weather.
1060. Portrait of Dr. J. M. DaCosta. (Owned
by Jefferson College, Philadelphia.)
1061. Blanche.
1062. Duxbury Bay.
1063. Riva degli Schiavoni.
1064. A Dull Day.
1065. "Now, Behave Pretty."

UNITED STATES.

1066. Studio Comrade. (Owned by Pennsylvania Academy of the Fine Arts.)
Wade, Caroline D., Chicago.
1067. Portrait of a Lady.
Wagner, Jacob, Boston.
1068. Over all the Trees is Rest.
1069. A Bit of a Lark.
Walden, Lionel, Paris.
1070. Boulogne Fishing Boats.
Fog on the Thames.
Walker, Henry O., New York.
1071. Hagar and Ishmael.
1072. Boy on the Donkey. (Owned by Mrs. S. D. Warren, Boston.)
1073. The Gift Bearer. (Owned by Miss E. H. Bartol, Boston.)
Walker, Horatio, New York.
1074. A Stable Interior.
Walkley, D. B., Pittsburg.
1075. The Potter. (Owned by W. A. Shaw, Sharpsburg, Pa.)
Wall, A. Bryan, Pittsburg.
1076. Across the Meadow.
Wallace, Laurie, Omaha.
1077. Portrait of James W. Scott. (Owned by Chicago Press Club.)
Waugh, Ida, Philadelphia.
1078. Hagar and Ishmael. (Owned by Pennsylvania Academy of the Fine Arts.)
Webber, C. T., Cincinnati.
1079. The Underground Railroad.
Weber, Carl, Philadelphia.
1080. Trout Stream near Dingman's Ferry.
Weeks, Edwin Lord, Paris.
1081. Two Hindoo Fakirs. A Souvenir of the Ganges.
1082. Three Beggars of Cordova. (Owned by Pennsylvania Academy of the Fine Arts, Philadelphia.)
1083. Persian Horse Dealers.
1084. Study at Bombay.
1085. Marble Court at Agra.
1086. Interior of Studio.
Weir, J. Alden, New York.
1087. Summerland.
1088. Christmas Tree.
1089. Autumn.
1090. The Young Student.
1091. Portrait.
1092. The Lane.
1093. The Open Book.
1094. Portrait of Webb Weir.
Weir, John F., New Haven.
1095. Portrait of Admiral Farragut.
Lent by University Club, New York.
1096. Forging the Shaft.
Wentworth, L. E.
1097. Prayer.
Whelpley, A. Renouf, Munich.
1098. Portrait of Mlle. Hausen. (Owned by Mlle. Hausen, Brunswick.)
Whistler, J. McNeil, Paris.
1099. The Lady with the Yellow Buskin. (Owned by Alexander Reid, Glasgow.)
1100. The Princess of the Land of Porcelain. (Owned by Alexander Reid, Glasgow.)
1101. The Fur Jacket. (Owned by Alexander Reid, Glasgow.)
1102. Nocturne, Valparaiso. (Owned by Hon. Sir John Charles Day, London.)
1103. Harmony in Blue and Silver. (Owned by J. J. Shannon, London.)
1104. Portrait.
Lent by A. J. Cassatt, Philadelphia.
White, Henry C., Hartford.
1105. Spring Landscape.
White, Robert H., Camden, N. J.
1106. Morning in February.
Whiteman, S. Edwin, Baltimore.
1107. Over Autumnal Hills.
1108. Lowland Pasturés.
Whitman, Sarah W., Boston.
1109. Niagara.
1110. Portrait of Oliver Wendell Holmes. (Owned by College of Physicians, Philadelphia.)
Whittemore, William J., New York.
1112. Autumn Sunshine.
Whittredge, W., New York.
1113. Rhode Island Coast.
1114. The Plains.
Lent by the Century Club, New York.
1115. The Old Hunting Ground.
Lent by J. W. Pinchot, New York.
Wickenden, Robert J., New York.
1116. Whispering of Spring.
1117. Portrait of Mrs. J. Albright.
Wigand, Albright, Mt. Vernon, N. Y.
1118. The Old Willow Tree.
Wiggins, Carlton, New York.
1119. Clouds and Sunshine. (Owned by Chas. E. Dingee, Brooklyn.)
1120. Midsummer. (Owned by John F. Dingee, Brooklyn.)
1121. Evening. Village of Grez. (Owned by Mrs. Charles M. Kurtz, New York.)
Wiles, Irving R., New York.
1122. Sunlight in the Studio. (Owned by Charles D. Miller, Jersey City.)
1123. Portrait.
1124. Sunshine and Flowers.
1125. The Sonata. (Owned by W. G. Evans, New York.)
1126. Lady in Green.
1127. A Girl in Black.
Lent by W. M. Chase, New York.
- Wiles, L. M., New York.**
1128. The Old Quarry.
Witt, J. H., New York.
1129. The Celestial Choir.
Woodbury, Charles Herbert, Boston.
1130. North Sea Dunes.
1131. The Tide River.
Woodward, William, New Orleans.
1132. Persimmons.
Woodwell, Johanna K., Pittsburg.
1133. Study Head of a Young Lady.
Woodwell, Joseph R., Pittsburg.
1134. White Rocks, Magnolia, Mass.
1135. A Rocky Coast, Magnolia, Mass.
1136. Cobblestone Beach, Magnolia, Mass.
1137. Rocks at Low Tide, Magnolia, Mass.
Woolfolk, E. Marshall, Paris.
1138. Washerwomen, Nemours, France.

DEPARTMENT K.—FINE ARTS.

- Wuerpel, H., Paris.**
 1139. September Twilight. (Owned by Wm. Taussig, St. Louis.)
Wyant, A. H. (deceased).
 1140. A North Woods Brook.
 Lent by Thomas B. Clarke, New York.
 1141. Landscape.
 Lent by Thomas B. Clarke, New York.
 1142. Sunset in the Woods.
 Lent by J. M. Lichtenauer, New York.
 1143. In the Adirondacks.
 Lent by W. T. Evans, New York.
 1144. Sunset.
 Lent by Fred B. Pratt, Brooklyn.
 1145. Forenoon in the Adirondacks.
 Lent by Mrs. A. L. Wyant, New York.
 1146. In the Woods.
 Lent by Mrs. A. L. Wyant, New York.
 1147. An October Day.
 Lent by Mrs. A. L. Wyant, New York.
 1148. Clearing Off.
 Lent by Mrs. A. L. Wyant, New York.
 1149. Evening. (Lent by Mrs. A. L. Wyant, New York.)
Young, Charles Morris, Gettysburg, Pa.
 1150. Wet Weather.
 1151. The Harvest of Death (Wheatfield at Gettysburg).
Moran, Thos., New York.
 1152. Grand Cañon of the Yellowstone.
 1153. The Iceberg.
Moran, Peter, Philadelphia.
 1153½. Down the Arroyo to Santa Fe.

GROUP 141.

Paintings in Water Colors.

- Abbey, E. A.**
 1154. Measure for Measure. Mariana.
 Lent by Henry G. Marquand, New York.
Allen, Thomas, Boston.
 1155. Portal of Ruined Mission, San Jose, Texas.
 1156. Pasture by the Sea.
 1157. Changing Pasture, Dartmoor.
Baker, J. Elder, New York.
 1158. Chrysanthemums.
Bellows, A. F. (deceased).
 1159. Sunday Afternoon in New England.
Birney, William Verplanck, New York.
 1160. Backyard Pets.
Blaney, Dwight, Boston.
 1161. The Temple of Neptune, Paestum, Italy.
Blashfield, Edwin H., New York.
 1162. The Duo.
 Lent by Mrs. John H. Sherwood, Brooklyn.
Bradbury, M. R., New York.
 1163. Santa Maria Salute, Venice.
Bradley, Horace, New York.
 1164. A Glimpse of Chase's Studio.

- Bradley, Susan H., Philadelphia.**
 1165. Mount Monadnock, New Hampshire. (Owned by Miss Sears, Boston.)
Bredin, Christine A., Cincinnati.
 1166. A Peasant Woman, Dachau, Bavaria.
Brul, Hugo, Providence.
 1167. Twins.
Bricher, A. T., New York.
 1168. A Summer Morning.
Bridges, Fidelia, Canaan, Conn.
 1169. In an Old Orchard.
Brooks, A. F., Chicago.
 1170. Boys Fishing.
Brown, J. G., New York.
 1171. A Wall Flower.
Cabot, Edward L., Brookline.
 1172. Wind-swept Beeches, Naushon Island.
Carter, Fernando A., Syracuse, N. Y.
 1173. Dutch Boats at Rotterdam.
Castello, Eugene, Philadelphia.
 1174. Gate of Justice, Cairo.
Cauldwell, Leslie, Paris.
 1175. Twilight.
Chapman, Carlton T., New York.
 1176. Toilers of the Sea.
Church, F. S., New York.
 1177. Pandora.
 Lent by W. T. Evans, New York.
Clusmann, William, Chicago.
 1178. A Wood Interior, Wisconsin.
Coffin, Esther L., New York.
 1179. Grapes.
 1180. Madison Square Tower at Night.
Colman, Samuel, Newport.
 1181. Ruins of a Mosque, Tlemcin, Algeria.
 1182. Mosque at Tlemcin, Algeria.
 1183. At the Fountain.
Conant, Lucy S., Boston.
 1184. Nascurtiums.
Crum, Clark.
 1185. Sympathy.
 Lent by J. M. Sears, Boston.
Curran, C. C., New York.
 1186. Cupid Asleep.
Daingerfield, Elliott, New York.
 1187. Woman with Pumpkin.
Dana, Charles E., Philadelphia.
 1188. Gruyère.
 1189. The Farm of Amont, Etretat, Normandy.
 1190. Street in Morat, Switzerland.
 1191. A Doorway in Arles, South of France.
Dawson, Arthur, Chicago.
 1192. When Evening Twilight Gathers Round.
 1193. Snow Scene.
De Luce, Percival, New York.
 1194. Busy Idleness.
Dixey, Ellen Sturgis, Boston.
 1195. Dresden in January.
Drake, W. H., New York.
 1196. At Sea.
 1197. Misty Weather.
Eaton, C. Harry, New York.
 1198. Nordhoff, New Jersey.
 1199. Indian Summer.
Eaton, Charles Warren, New York.
 1200. The Witching Hour.
 1201. Winter.
 1202. The Snow Mantle.
Edwards, George Wharton, New York.
 1203. An Interesting Subject.

UNITED STATES.

1204. In the Dunes, Flanders.
Ertz, Edward, Paris.
1205. Sunset, Chartres, France.
Farny, Henry E., Cincinnati.
1206. A Sioux Camp.
Lent by Miss Jane Eckstein,
Cincinnati.
1207. Got Him.
1208. Mountain Trail.
Foster, Ben., New York.
1209. Night.
1210. The Shepherds.
1211. A Swine Herd.
Franzen, August, New York.
1212. Afternoon.
1213. Before the Rain.
Fraser, John A., New York.
1214. An Old English Street.
1215. The Heart of Scotland.
1216. Bad Weather, Kirk Lake, N. Y.
1217. A Bit of the Upper Thames.
1218. A Gray Bit on Long Island.
Gibson, W. Hamilton, Brooklyn.
1219. Upland Meadows.
Lent by Charles H. Wacker,
Chicago.
1220. Rainclouds.
1221. September Rain.
1222. Moonlight in Opelousas.
1223. Russet Meadows.
1224. Landscape.
1225. On the Canal at Dort.
1226. A Honey Dew Picnic.
1227. A Connecticut Hamlet.
Gifford, R. Swain, New York.
1228. A Tile Kiln on the Northern Canal.
1229. A Summer Afternoon, New England.
1230. The Mountains of Chobet el Akra,
Northern Africa.
1231. Salt Works of Batz, France.
Greatorex, Kathleen H., Paris.
1232. Carnival.
1233. Corner of the Strozzi Palace, Florence.
Guerin, Jules, Chicago.
1234. Early Morning in a Village Street
Kentucky.
Hallett, Hendricks A., Boston.
1235. Winter Moonlight.
Hammer, John J., New York.
1236. In the Dry Docks.
Hardwick, Melburne H., Boston.
1237. Looking Inland.
Harison, Mary A., Brooklyn.
1238. Pansies.
Hartson, Walter C., Chicago.
1239. Old Willows at Glendale.
1240. Outskirts of the City.
1241. Along the Baraboo River.
Hassam, Childe, New York.
1242. Montmartre.
1243. Springtime in the City.
1244. Fifth Avenue.
Helmick, Howard, Washington.
1245. Portrait.
Lent by Mrs. Stoddart, Wash-
ington.
Henry, Edward L., New York.
1246. Before the Days of Rapid Transit.
Lent by Shephard Knapp, New
York.
Herter, Albert, New York.
1247. The Great Mystery.
Holman, Frank, Paris.
1248. A Sun Effect.
1249. Melody.
Ihlefeld, Henry, New York.
1250. My Puppy.
Jones, Annie W., Chicago.
1251. Easter Lilies.
Jones, Francis C., New York.
1252. Waiting.
Jones, H. Bolton, New York.
1253. Winter.
1254. Early Snow.
1255. Winter.
Lent by J. C. Nicoll, New York.
Joseph, I. A., New York.
1256. Midnight.
Kappes, Alfred, Van Cortlandt, N. Y.
1257. Apple Pie.
Keller, Arthur J., New York.
1258. Bavarian Peasants.
1259. Water Lilies.
Lent by J. M. Sears, Boston.
1260. Just Flowers.
Lent by J. M. Sears, Boston.
Lampert, Emma E., Rochester.
1261. A Breadwinner.
1262. Through the Meadows in Holland.
Lent by C. Louise Imlach New
York.
Lauber, Joseph, Leonia, N. J.
1263. First Day of School.
1264. Lane of Willows.
Lungren, F. H., Cincinnati.
1265. A Snowy Evening.
Manley, Thomas R., New York.
1266. A Wet Day, from Studio Window.
**Maynard, George Willoughby, New
York.**
1267. Sirens. (Owned by F. G. Bourne, New
York.)
1268. A Sea Witch.
McChesney, Clara T., New York.
1269. Still Life.
1270. The Old Cobbler.
**McIlhenny, C. Morgan, Shrub Oak,
N. Y.**
1271. Moonrise.
1272. Bull Calf.
1273. Old Friends.
Lent by T. B. Clarke, New York
Mente, Charles, New York.
1274. The Shepherd and His Flock.
1275. Evening Pastoral.
1276. Willows and Sheep.
Millet, F. D., New York.
1277. Roman Maiden.
Lent by Henry G. Marquand,
New York.
Minor, Robert C., New York.
1278. Moonlight.
**Moser, James Henry, Washington,
D. C.**
1279. November Evening.
**Needham, Charles Austin, New
York.**
1280. A Dream of Autumn.
Nicholls, Rhoda Holmes, New York.
1281. The Scarlet Letter.
1282. Chrysanthemums.
1283. Washing Day.
Lent by Luis J. Francke, New
York.
Nicoll, J. C., New York.
1284. Evening After a Gale.
1285. During a Storm.
1286. Near York Harbor, Maine.

DEPARTMENT K.—FINE ARTS.

1287. Twilight, Late Autumn.
Ochtman, Léonard, New York.
1288. Frost.
Parrish, Clara Weaver.
1289. A Study of a Southern Negro.
Pattison, James William, Jacksonville, Ill.
1290. East Gloucester Ferry Landing.
1291. Meadow in Spring.
Perrie, Bertha E., New York.
1292. Bound for the Banks.
Pitkin, Caroline W., New York.
1293. Porgies.
Pomeroy, Grace V.
1294. Home of the Bullfrog.
Powers, Ellen, Florence.
1295. Convolvulus.
Rascovich, Robert, Chicago.
1296. Canal in Venice.
Redmond, J. J., New York.
1297. Market Day in Thun, Switzerland.
Rehn, F. K. M., New York.
1298. The Reef.
Rice, H. M.
1299. Interior.
Richards, William T., Newport, R.I.
1300. An Atlantic Beach.
Rix, Julian, New York.
1301. Buttonball Trees.
1302. October Day.
Robinson, Will S., Philadelphia.
1303. Arrival of the Boats, Coast of Holland.
1304. In the Harbor (sunlight effect.)
Rotch, Arthur, Boston.
1305. Limburg Cathedral.
Satterlee, Walter, New York.
1306. Adirondack Trout.
1307. Garden Weeds.
Sawyer, Wallace.
1308. Bourboule Washerwoman.
Schilling, Alexander, New York.
1309. Autumn Evening.
1310. Fields in Early Spring.
Scott, Mrs. E. M., New York.
1311. Roses.
1312. Still Life.
1313. White Rose.
1314. Summer Roses.
Senat, Prosper L., Philadelphia.
1315. Capri from Sorrento.
1316. A Corner in San Remo.
1317. The River Bend at Ventimille.
1318. Head of the Creek, Kennebunkport, Me.
Sherwood, Rosina Emmet, New York.
1319. September.
Lent by Boston Art Club.
1320. In the Orchard.
1321. Sunlight in the Orchard.
Silsbee, M., Boston.
1322. Monadnock.
Smedley, W. T.
1323. "There could be no doubt, thought Miss Latymer, that it was to be the Intense Elderly."
Lent by Charles Scribner's Sons, New York.
1324. "Up Among the Great Iron Arches."
Lent by Charles Scribner's Sons, New York.
1325. A Lazy Companion.
1326. Jackson Park—part of the Exhibition Grounds.
Lent by Charles Scribner's Sons, New York.
1327. Entrance to the Hall of Mines, in process of construction.
Lent by Charles Scribner's Sons, New York.
1328. Near the Hall of Mines.
Lent by Charles Scribner's Sons, New York.
1329. The Administration Building.
Lent by Charles Scribner's Sons, New York.
1330. Site for the Statue of the Republic.
Lent by Charles Scribner's Sons, New York.
- Smillie, N. S. J., New York.**
1331. Pink and White.
Lent by Helene de Cordova, New York.
- Smith, F. Hopkinson, New York.**
1332. Venetian Fishing Boats.
Lent by Charles Scribner's Sons, New York.
1333. The Rialto.
Lent by Charles Scribner's Sons, New York.
1334. After the Catch.
1335. In the Fishing Quarter.
Smith, Joseph London, Boston.
1336. Bartholomeo Coleono.
Snell, Henry B., New York.
1337. Crossing the Bar.
Stackpole, Alice, Boston.
1338. Late Afternoon in Beverly, Mass.
Tewksbury, Fanny W., Boston.
1339. A New England Homestead.
Thulstrup, T. de, New York.
1340. Swedish Interior.
1341. Moujik.
Tiffany, Louis C., New York.
1342. Cobblers at Bouferik, Algeria.
1343. Street in Algiers.
1344. Cathedral at Morlaix.
1345. Street in Algiers.
1346. Feeding the Flamingoes.
1347. Summer.
Turner, Ross, Salem, Mass.
1348. Flood Tide.
1349. Oleanders and Lilies.
1350. Old Japan (a).
1351. Old Japan (b).
Twachtman, J. H., New York.
1352. Pier near Newport.
1353. Winter.
Tyler, James G., New York.
1354. Dark Days at Sea.
Vanderveer, Mary A., Amsterdam, N. Y.
1355. Study of Peonies.
Walton, William, New York.
1356. A Great Enchantment.
Wells, Newton A., Syracuse.
1357. Rest.
Whittemore, William J., New York.
1358. Early Worshippers, St. Ives, Cornwall.
1359. The Fairy Story.
1360. Coast of Cornwall.
1361. Misty Twilight.
1362. In Old Edinburgh.
Woodwell, Johanna K., Pittsburgh.
1363. Portrait of Miss L.

UNITED STATES.

1364. Young, Charles M., Gettysburg, Pa.
The Forest.

GROUP 142.

- Van Trump, Miss R. N., Philadelphia.
1365. A portrait—miniature on ivory.

GROUP 143.

Engravings and Etchings. Prints.

Etchings and Dry Points.

- Bloodgood, Robert, New York.
1366. Who's Afraid?
1367. Hard Times.
Calahan, James J., New York.
1368. Mandolin Player.
Canby, Louise Prescott, Philadelphia.
1369. Sunset.
1370. Oswego Harbor.
1371. Shipping Ice on the Kennebec.
Chapman, Carlton T., New York.
1372. Street in Mont St. Michel.
1373. Evening in a Harbor
1374. Bakehouse Close, Edinburgh.
1375. English Fishing Boats.
1376. Twilight by the Sea.
1377. Calm Morning.
1378. Fishing Boats at Anchor.
1379. Driven Ashore.
1380. Rue de la Victoire, St. Malo.
1381. Bridge Over Old Moat, Chartres.
1382. Moonrise.
1383. Gloucester Harbor.
1384. Abandoning the Ship.
1385. Street in St. Malo.
1386. Old House, Chester.
1387. Street in Chartres.
Colman, Samuel, Newport, R. I.
1388. Olivé Grove and Mill, Bordighera, Italy.
1389. Olive Trees of the Riviera.
1390. Life in Mexico. From note book sketches.
1391. A Gray Day at Dieppe.
1392. Japanese Inro with Netzukies.
1393. Japanese Inro with Netzukies. (No. 2.)
1394. The Terraces at Naples.
Dielman, Frederick, New York.
1395. Head. (Dry Point.)
Ertz, Edward, Paris.
1396. The River Loire and the Chateau of Vernon. Three etchings.
Faber, Erwin F., Philadelphia.
1397. Thrown.
Lent by C. Klackner, New York.
1398. St. Philip's, Charleston.
Lent by H. L. Smith, Philadelphia.
1399. The Repentance of Eve.
Faber, Herman, Philadelphia.
1400. Faust—A Mastiff.
1401. Study of a Lion's Head.
1402. The Challenge.
Ferris, Stephen J., Philadelphia.
1403. Six Etchings.
Gifford, R. Swain, Philadelphia.
1404. Salt Vats of Padan Aram.
1405. Near the Sea (Evening).
1406. An October Day.

1407. Barney's Joy.
1408. The Branch of the River.
1409. The Cove Road.
Johnson, Thomas, New York.
1410. Walt Whitman. (After photograph.)
1411. Abraham Lincoln. (After photograph.)
1412. Columbus.
King, James S., Upper Montclair, N. J.
1413. Christmas Morning in Colonial Times.
Lent by C. Klackner, New York.
1414. August Afternoon.
Lent by C. Klackner, New York.
1415. The Golden Hour (Harvest).
Lauber, Joseph, Leonia, N. J.
1416. Low Lands Near the Ocean.
1417. The Pond.
1418. Shingle Maker.
1419. A Study in Dry Point.
1420. Morning at the Farm.
1421. The Shower.
Lovewell, Rominer, Chelsea, Mass.
1422. Green's Dock, East Boston.
Manley, Thomas R., New York.
1423. Newark Bay (Evening).
1424. The Cottage.
1425. Weehawken Ferry.
1426. Bridge in Central Park, New York.
1427. After the Shower.
1428. The Lane.
1429. Near King's Bridge, New York.
Mercier, Gustave, New York.
1430. Automedon. (After Henri Regnault.)
1431. The Day's Work Done. (After Jules Breton.)
1432. Vive le Fidelite! (After Franz Hals.)
1433. Education of the Virgin. (After Rubens.)
Mielatz, Charles F. W., New York.
1434. The Battery, New York.
1435. Madison Square at Night.
1436. Elevated Station at Night.
1437. A Tow on the North River, New York.
1438. Sectional Docks, East River, New York.
1439. In the Bowery, New York.
1440. Entrance to Brooklyn Bridge, New York.
1441. Spar Yard, South Street, New York.
1442. Mott Haven Canal, New York.
1443. Grand Central Station at Night.
1444. Coenties Slip, New York.
1445. East River, New York.
1446. Newport Wharves.
1447. A Bit of Baxter Street, New York.
1448. The Road to the Sea.
1449. The Falls of the Pawtucket. (Dry Point.)
1450. Trout Pond, Moorsfield, R. I.
1451. Strangers in Wallabout. (Dry Point.)
1452. Mill at Block Island, R. I. (Dry Point.)
1453. The Tombs, New York. (Dry Point.)
1454. Two Bridges on the Harlem. (Dry Point.)
Monks, J. A. S., Boston.
1455. Evening After the Storm.
Moran, Emily K., Philadelphia.
1456. On the Road to the Farm.

DEPARTMENT K.—FINE ARTS.

- Moran, M. Nimmo, New York.**
 1457. Point Isabel, Florida.
 1458. Florida Forest.
 1459. Summer, Easthampton.
 1460. Edge of Georgia Pond.
 1461. The Old Homestead.
 1462. Between the Gloaming and the Mirk.
 1463. Twilight, Easthampton.
 1464. Bridge Over the Delaware.
 1465. Hunt of the Muskrat.
 1466. Conway Castle, Wales.
 1467. Bushkill Bridge.
 1468. Evening, Easthampton.
Moran, Peter, Philadelphia.
 1469. Return of the Herd.
 1470. A Summer Afternoon.
 1471. Under the Willows.
 1472. An Old New England Orchard.
 1473. A Passing Storm, York Downs.
Mygatt, Robertson K., New York.
 1474. Restaurant in Stadts Park, Carlsbad.
 1475. Pragergasse, Carlsbad.
 1476. Market Place, Carlsbad.
 1477. A Tepel Breeze, Carlsbad.
 1478. Along the Quay, Carlsbad.
 1479. Street Scene, Carlsbad.
 1480. Markt Strasse (Market Street), Carlsbad.
 1481. Slushy Morning, from Window.
 1482. Twilight from My Window.
 1483. Cloisters, Santa Barbara, Cal.
Nicoll, J. C., New York.
 1484. Cruising by Moonlight.
 1485. The Reef.
 1486. In the Harbor.
 1487. The Smugglers' Landing Place.
 1488. An East Wind.
Parrish, Stephen, Philadelphia.
 1489. A Gale at Fecamp.
 1490. Swamp Land.
 1491. Winter Evening, Windsor, N. S.
 1492. Gloucester Harbor.
 1493. Portland, New Brunswick.
 1494. Market Place, Yvetot.
 1495. Northern Moorland.
 1496. Riverdale.
 1497. On the Dee, Chester.
 1498. On the Thames.
 1499. Near Dinan, Brittany.
 1500. Market Day, St. Augustine.
 1501. Mills, New Brunswick.
 1502. Winter at Windsor, N. S.
 1503. Bass River, Cape Cod.
 1504. Near Quebec.
 1505. Near Fréjus.
 1506. Bethlehem, Pennsylvania.
 1507. Canal, Venice.
 1508. Port of Nice.
 1509. On Cape Ann.
 1510. On the Rance, Brittany.
 1511. Winter.
 1512. Charenton, Paris.
 1513. A Passing Shower.
 1514. Port of Cannes.
Paulus, Francis P., Munich.
 1515. Scene near Munich.
 1516. Spring Morning on the Isar.
 1517. Summer Landscape.
Platt, Charles A., New York.
 1518. Arnheim.
 1519. The Meuse.
 1520. Brittany Landscape.
 1521. Brittany Farm.
 1522. Willows on the Coast.
 1523. Dieppe.
 1524. Dordrecht.
 1525. Naples.
 1526. Honfleur.
 1527. Passenger Boats on the Seine.
 1528. Pier at Larmor.
 1529. Under Pont Ste. Marie.
 1530. Two Sloops.
 1531. Inland Port.
 1532. A Spring Flood.
 1533. Brooklyn Bridge.
 1534. Pont St. Michel.
Ritchie, Henrietta, Philadelphia.
 1535. The Connoisseur.
 1536. Race Street Wharf, Philadelphia.
Rosenthal, Max, Philadelphia.
 1537. Crossing the Brook.
 1538. Portrait of George W. Childs.
Sartain, Emily, Philadelphia.
 1539. In the Twilight.
Schilling, Alexander, New York.
 1540. Near Ridderkerk, Holland.
 1541. Toll Gate and Bridge.
 1542. Holland Landscape.
 1543. Spring.
 1544. The Juniata, near Lewistown.
 1545. German Landscape.
 1546. Oostendam, Holland.
 1547. Dordrecht from Pappendrecht.
 1548. On Weehawken Heights.
 1549. Edge of the Forest.
 1550. Lowery Autumn Day.
 1551. Holland Landscape. (Dry point.)
 1552. An Interior.
 1553. Windmill on the Maas.
 1554. Church Street, Detroit. (Winter.)
 1555. Hauling Wood.
 1556. The Brick Barge.
 1557. A Breezy Day on the Hackensack.
 1558. The Maas at Schiedam.
 1559. The Maas near Dort, low tide.
 1560. The Dyke.
 1561. Heerjehusdam, Holland.
 1562. Old Shed and Willows, Rijsvoord.
 1563. Landscape, Spring.
 1564. Evening. (Dry point.)
 1565. Dry point, with burr removed.
 1566. At Sunset.
Schoff, S. A., Greenfield, Mass.
 1567. Portrait of a Girl. (After Abbott H. Thayer.)
 1568. Portrait of Judge Devens. (After F. P. Vinton.)
 1569. The Prelude. (After C. S. Pearce.)
 1570. Portrait of Mrs Fowler. (After Frank Fowler.)
Smith, Sidney L., New York.
 1571. Europa. (After antique terra cotta.)
 1572. Silver Coffee Pot made by Tiffany & Co.
 1573. Portrait.
 1574. Portrait.
 Eight etchings of jades from the collection of Heber R. Bishop, as follows:
 1575. Light and Dark Green Jade, Teakwood Stand.
 1576. Jade Plaque, Green Jade Stand.
 1577. Jade, with Teakwood Stand.
 1578. Jade Vase, Teakwood Stand.
 1579. Jade Bowl, Teakwood Stand.
 1580. Green Jade Jar, Teakwood Stand.
 1581. Opaque Gray Jade, Teakwood Stand.
 1582. Green Jade Plaque, Teakwood Stand.

UNITED STATES.

- Vanderhoof, Charles A., New York.**
 1583. Sunset on the Marne.
 1584. Morning.
 1585. Solitude.
 1586. Dordrecht.
 1587. East River.
 1588. The First Snow.
 1589. The Passing Storm.
 1590. Sand Dunes of Virginia.
 1591. A New York Shanty.
 1592. A Kansas Windmill.
 1593. Morning Light.
 1594. Castle William.
 1595. The Fish Hawk's Nest.
Van Elten, Kruseman, New York.
 1596. Repairing the Bridge.
 1597. Hudson River.
 1598. Lily Pond.
Walker, Charles A., Boston.
 1599. On the Oise. (After Daubigny.)
 1600. Winter in Holland. (After A. Mauve.)
 1601. Landscape. (After Daubigny.)
 1602. Group of Seven Etchings: (Two after Corot, 2 after Daubigny, 1 after Troyon, 1 after Meissonier Le Sieur.)
 See also No. 1990.
Weir, J. Alden, New York.
 1603. Dr. R. F. Weir.
 1604. Christmas Tide. (After a water color.)
 1605. Blacksmith Shop.
 1606. John F. Weir. (Last state.)
 1607. By the Evening Lamp.
 1608. The Back Yard.
 1609. The Little Fountain.
 1610. Sulby Glen.
 1611. The Lamp.
 1612. Castle.
 1613. Head.
 1614. Figure with Sleeping Dog.
 1615. Portrait of a Young Lady.
 1616. Three Etchings.
 1617. One Dry Point and One Etching.
 1618. Frugal Repast. Child Reading.
 1619. Head.
 1620. Four Heads.
 1621. Two Etchings on Zinc.
 1622. Three Etchings and Three Dry Points.
 1623. Two Etchings and One Dry Point.
 1624. One Dry Point and One Etching.
 1625. One Dry Point and One Etching.
 1626. Two Dry Points.
 1627. H. E. Weir and Robert Weir. (Dry points.)
 1628. One Etching and One Dry Point.
Whistler, James McNeill, London.
 1629. Early Portrait of Whistler.
 Lent by Edward G. Kennedy, New York.
 1630. The Unsafe Tenement.
 Lent by Edward G. Kennedy, New York.
 1631. The Old Rag Woman.
 Lent by George W. Vanderbilt, New York.
 1632. The Kitchen.
 Lent by George W. Vanderbilt, New York.
 1633. Tyzac, Whiteley & Co.
 Lent by Edward G. Kennedy, New York.
1634. Black Lion Wharf.
 Lent by George W. Bramhall Orange, N. J.
 1635. Longshoremen.
 Lent by Howard Mansfield, New York.
 1636. The Lime Burner.
 Lent by Edward G. Kennedy, New York.
 1637. Arthur Seymour. (Dry point.)
 Lent by Charles L. Freer, Detroit.
 1638. Becquet.
 Lent by Howard Mansfield, New York.
 1639. Whistler. (Dry point.)
 Lent by Edward G. Kennedy, New York.
 1640. Drouet. (Dry point.)
 Lent by Howard Mansfield, New York.
 1641. Annie Haden. (Dry point.)
 Lent by Howard Mansfield, New York.
 1642. Mr. Mann. (Dry point.)
 Lent by John Caldwell, Pittsburgh.
 1643. Rotherhithe.
 Lent by Howard Mansfield, New York.
 1644. Axenfeld. (Dry point.)
 Lent by Edward G. Kennedy, New York.
 1645. The Engraver—Riault. (Dry point.)
 Lent by Edward G. Kennedy, New York.
 1646. The Forge. (Dry point.)
 Lent by Edward G. Kennedy, New York.
 1647. Joe. (Dry point.)
 Lent by Howard Mansfield, New York.
 1648. The Storm. (Dry point.)
 Lent by Edward G. Kennedy, New York.
 1649. Weary. (Dry point.)
 Lent by George W. Bramhall, Orange, N. J.
 1650. Fanny Leyland. (Dry point.)
 Lent by Howard Mansfield, New York.
 1651. Battersea, Dawn. (Dry point.)
 Lent by Howard Mansfield, New York.
 1652. Steamboat Fleet. (Dry point.)
 Lent by Edward G. Kennedy, New York.
 1653. Battersea Bridge.
 Lent by Edward G. Kennedy, New York.
 1654. The Large Pool.
 Lent by Howard Mansfield, New York.
 1655. Putney Bridge.
 Lent by Howard Mansfield, New York.
 1656. The Little Putney, No. 3.
 Lent by Howard Mansfield, New York.
 1657. Little Venice.
 Lent by John Caldwell, Pittsburgh.

DEPARTMENT K.—FINE ARTS.

1658. Nocturne, Riva.
Lent by Howard Mansfield,
New York.
1659. The Palaces.
Lent by Bryan Lathrop, Chi-
cago.
1660. The Doorway.
Lent by Howard Mansfield,
New York.
1661. The Traghetto.
Lent by John Caldwell, Pitts-
burg.
1662. The Two Doorways.
Lent by Howard Mansfield,
New York.
1663. The Beggars.
Lent by George W. Bramhall,
Orange, N. J.
1664. San Giorgio.
Lent by Howard Mansfield,
New York.
1665. Nocturne, Palaces.
Lent by Howard Mansfield,
New York.
1666. The Riva, No. 2.
Lent by John Caldwell, Pitts-
burg.
1667. The Garden.
Lent by Howard Mansfield,
New York.
1668. The Balcony.
Lent by Edward G. Kennedy,
New York.
1669. The Dyer.
Lent by Howard Mansfield,
New York.
1670. The Smithy.
Lent by Howard Mansfield,
New York.
1671. The Little Sweet Shop.
Lent by Walter S. Carter,
Brooklyn.
1672. Windsor. (Dry Point).
Lent by Charles L. Freer, De-
troit.
1673. The Barber's Shop, Chelsea.
Lent by Howard Mansfield,
New York.
1674. Clothes Exchange, No. 2.
Lent by Howard Mansfield,
New York.
1675. Court Yard, Brussels.
Lent by Edward G. Kennedy,
New York.
1676. Palace, Brussels.
Lent by Bryan Lathrop, Chi-
cago.
1677. Hotel Lallemand, Bourges.
Lent by Charles L. Freer, De-
troit.
1678. Mayoralty Building, Loches.
Lent by Charles L. Freer, De-
troit.
1679. Chancellor's Office, Loches.
Lent by Charles L. Freer, De-
troit.
1680. City Hall, Loches.
Lent by Charles L. Freer, De-
troit.
1681. Zaandam.
Lent by Walter S. Carter,
Brooklyn.
1682. Pierrot.
Lent by Walter S. Carter,
Brooklyn.
1683. The Balcony, Amsterdam.
Lent by Walter S. Carter,
Brooklyn.
1684. The Steps.
Lent by Walter S. Carter,
Brooklyn.
1685. The Embroidered Curtain.
Lent by Walter S. Carter,
Brooklyn.
1686. The Long House.
Lent by Charles L. Freer, De-
troit.
1687. The Mill.
Lent by Walter S. Carter,
Brooklyn.
- Whittemore, Charles E., New York.**
1688. Twilight on Bedloe's Island, New
York Harbor.
1689. Off Old Point Comfort, Virginia.
1690. A Gloucester Water Side.
Whittemore, Wm. J., New York.
1691. Mont St. Michel.
1692. Head of the Harbor.
Yewell, George H., New York.
1693. Cloister of the Monastery of St. Elena,
near Venice.
1694. House of the Bell Ringer of Rouen
Cathedral, France.
- Prints from Engravings on Wood.**
- Aikman, Walter M., Brooklyn.**
1695. Under the Willows. (After Alfred
Parsons.)
1696. Wordsworth. (After Alfred Parsons.)
1697. A Modern Comanche. (After F.
Remington.)
1698. Grand Canal, Venice.
1699. Rowing Down to Iffley.
1700. Bringing Home the Christmas Tree.
1701. Sunset, La Hulpe, Belgium.
1702. The Sheep Pasture.
1703. The Penitent Jewel Weed.
Aitken, Peter, New York.
1704. On the Otomi Pass, Japan. (After A.
Castaigne.)
1705. A Scene in Kent. (After J. A. Fraser.)
1706. The Conspirators.
Baker, Horace, New York.
1707. Castles in The Air.
1708. Malay Pirate.
1709. Scene in Tasmania.
**Bernstrom, Victor, Grandview-on-
Hudson, N. Y.**
1710. A Little Music. (After Theodore
Wores.)
1711. Limbering Up.
1712. Philip II.
1713. The Mujik. (After T. de Thulstrup.)
1714. Drawing Water for the Camp. (After
F. D. Millet.)
1715. Snow Angel.
1716. Trapped at Last.
1717. The Shepherdess. (After Charles
Sprague Pearce.)
1718. The Mystery of Life. (After Carl
Marr.)
1719. Pirates' Haven, Shark River, N. J.
1720. The Dead Matador.
Brown, W. Lamont, Boston.
1721. Portrait of Corot.

UNITED STATES.

- Cleaves, W. P., Springfield, Mass.**
 1722. Swift River, Conway, N. H.
 1723. A Chocorua Vista.
 1724. A Chocorua Sunset.
 1725. Chocorua Mountain and Lake
 1726. Springfield, Mass.
 1727. Silver Lake.
Closson, W. B., Lancaster, Mass.
 1728. Saxon.
 1729. The Mirror. (After Bunker.)
 1730. Springtime. (After E. Major.)
 1731. The Young Squire. (After Couture.)
 1732. Night Moths.
 1733. Winifred Dysart. (After George
 Fuller.)
 1734. The Immaculate Conception. (After
 Murillo-Fragment.)
 1735. Mother and Child. (After A. H.
 Thayer.)
 1736. Ideal Head. (After A. H. Thayer.)
 1737. The Quadroon Girl. (After George
 Fuller.)
 1738. The Listeners. (After W. M. Hunt.)
 1739. The Mother. (After Simmons.)
 1740. Flowers.
 1741. The Irrigating Ditch.
 1742. Sheep Shearers. (After Millet.)
 See also No. 1970.
**Cole, Timothy. The Century Co.,
 New York.**
 1743. Delphian Sibyl. (After Michael An-
 gelo.)
 1744. Knight of Malta. (After Giorgione.)
 1745. The Concert. (After Giorgione.)
 1746. The Tribute Money. (After Masac-
 cio.)
 1747. Venice Enthroned. (After Paolo Ver-
 onese.)
 1748. Battle of St. Ephesius. (After Spin-
 ello.)
 1749. Madonna and Child. (After Bellini.)
 1750. Miracle of St. Mark. (After Tintor-
 etto.)
 1751. Group of Angels. (After Gozzoli.)
 1752. Mary Magdalen. (After Bartholo-
 meo.)
 1753. Æneas. (After Raphael.)
 1754. Madonna of the Goldfinch. (After
 Raphael.)
 1755. Mona Lisa. (After Lionardo Da
 Vinci.)
 1756. Three Ages of Man. (After Lotto.)
 1757. Unknown Man. (After Francia.)
 1758. Verocchio. (After Lorenzo di'Credi.)
 1759. Madonna and Child (with cherubs).
 (After Bellini.)
 1760. Detail of "The Last Judgment." (Af-
 ter Fra Angelico.)
 1761. Two Angels. (After Andrea del
 Sarto.)
 1762. Man with a Violin.
 1763. Madonna and Child. (After Botti-
 celli.)
 1764. St. Agnes. (After Andrea del Sarto.)
 1765. St. Jerome. (After Ghirlandaio.)
 1766. St. Liberalis. (After Giorgione.)
 The above named engravings by
 Cole were lent by the Century
 Co., New York.
 1767. The Entombment.
**Collins, Robert C., Rockville Centre,
 L. I., N. Y.**
 1768. Florence, on the Arno.
 1769. An Archway in Siena.
1770. Henry VII Chapel.
 1771. Landing Stairs at Leghorn. (After
 J. Pennell.)
**Comstock, Mrs. Anna Botsford, Ith-
 aca, N. Y.**
 1772. Tropical Moth.
 1773. Moths.
 1774. Moths.
 1775. A Moth.
 1776. Cherry Blossoms and Moths.
 1777. Rendezvous by Moonlight.
Cooper, Edith, New York.
 1778. Sheep. (After Davies.)
 1779. White Birches. (After Miller.)
 1780. Garrison Marching out with the Hon-
 ors of War, Lille, 1708.
 1781. Springtime of Love. (After Thu-
 mann.)
Dana, William Jay, Brookline, Mass.
 1782. Twilight. (After J. Appleton Brown.)
 1783. The Mill at Cleeve. (After J. Apple-
 ton Brown.)
 1784. Pine Woods in Canada. (After F.
 Hopkinson Smith.)
 1785. Sunset. (After Corot.)
Davidson, Harry, New York.
 1786. Balaam and His Master. (After How-
 ard Helmick.)
 1787. Canterbury Cathedral.
 1788. Afternoon at a Rancho.
 1789. Israel.
 1790. The Bowery at Night.
 1791. An Old Mill. (After A. Castaigne.)
 1792. Hard Winter.
Davis, John P., New York.
 1793. Woman and Bull. (After Roth.)
 1794. Among the Old Poets. (After Wal-
 ter Shirlaw.)
 1795. The Cobblers. (After E. M. Ward.)
 1796. The Spring Song. (After Arthur B.
 Davis.)
 1797. The Bohemian. (After Paul W. Bart-
 lett.)
 1798. The Autumn Hillside.
 1799. Joe-Jefferson as Bob Acres. (After
 J. W. Alexander.)
Davis, Samuel P., Brooklyn.
 1800. An After Dinner Nap. (After Dolph.)
 1801. Cat and Kittens at Play. (After Mme.
 Ronner.)
 1802. French Hunting. (After Rosa Bon-
 heur.)
Del'Orme, E. H., New York.
 1803. Esquimaux Life. (After W. L. Tay-
 lor.)
 1804. Birthplace of Beethoven.
 1805. Canoeing in Florida. (After V. Per-
 ard.)
 1806. Garden Scene in Venice. (After Rico.)
 1807. Landing of the Dutch Fleet. (After
 C. Delort.)
 1808. Cumrun Church.
 1809. An Iceberg. (After W. L. Taylor.)
Evans, John W., Brooklyn.
 1810. With Fate Against Them.
 1811. Indian Horserace. (After F. Rem-
 ington.)
 1812. Moving the Fourth Cavalry. (After
 F. Remington.)
 1813. Fallow Deer. (After B. Hook.)
Fillebrown, F. E., Boston.
 1814. The Pleiades. (After Elihu Vedder.)
French, Frank, East Orange, N. J.
 1815. A Christmas Vigil.

DEPARTMENT K.—FINE ARTS.

1816. Under the Mistletoe.
 1817. Christmas Chimes.
 1818. Clara.
 1819. Valentine.
 1820. Old Residenter.
 1821. Country Store.
 1822. Daisies.
 1823. Vale of Tears.
 1824. African Woman.
 1825. Three wood engravings: Showery Days in the Meadows, Canterbury Meeting House, Morning in the Meadow.
 1826. Abundance. (After Martiny.)
 1827. Heneyah. (After Bridgman.)
 1828. The Tiger Hunt. (After Barye.)
 1829. Rose Leaves. (After Humphrey Moore.)
 1830. Isaac Walton. (After Boughton.)
 1831. The Rare Vase. (After Fortuny.)
 1832. Portrait of a Lady. (After F. Dielman.)
 1833. In the Enemy's Country. (After Gilbert Gaul.)
 1834. Lacing the Sandal. (After F. D. Millet.)
 1835. Bust of Mark Twain.
 Grosch, Oskar, Cincinnati.
 1836. Women Knitting.
 Lent by G. Meinshausen, Cincinnati.
 Heinmann, Ernest, Fort Wadsworth, L. I., N. Y.
 1837. Mermaid.
 Johnson, Thomas, New York.
 1838. Head of a Man. (After Rembrandt.)
 1839. Browning.
 1840. Dr. J. Weir Mitchell. (After Holl.)
 1841. Bishop Potter. (After Huntington.)
 1842. Mrs. Bradley Martin. (After Carolus-Duran.)
 1843. Paderewski.
 1844. Tennyson.
 1845. Portrait of A. Lang. (After Richmond.)
 1846. Portrait of a Girl.
 1847. Daubigny.
 1848. Liszt. (After Munkaczy.)
 1849. Portrait of a Child. (After J. W. Alexander.)
 Jungling, J. F., Jersey City.
 1850. The Queer Old Lady.
 King, Francis S., Roseville, N. J.
 1851. Knowledge is Power. (After F. S. Church.)
 1852. Battle of the Sirens. (After F. S. Church.)
 1853. The Sorceress. (After F. S. Church.)
 1854. Fog. (After F. S. Church.)
 1855. Pandora's Box. (After F. S. Church.)
 1856. Girl and Tigers. (After F. S. Church.)
 1857. Charge of Cuirassiers. (After Aime Morot.)
 1858. Ivan the Terrible.
 1859. Rose.
 Nos. 1851-1859 lent by Harper & Bros., New York.
 1860. The Sibyl. (After F. S. Church.)
 1861. Christmas Fantasy.
 1862. F. S. Church in His Studio.
 1863. The Quartette. (After W. Dannat.)
 1864. A Difference. (After E. H. Blashfield.)
 Kingsley, Elbridge, Hadley, Mass.
 1865. The White Mountain.
 1866. New England Elms.
 1867. Old Homestead. (After J. F. Murphy.)
 1868. Late Summer. (After R. Collin.)
 1869. Connecticut Valley.
 1870. Journey Northward.
 1871. The Flying Dutchman. (After A. P. Ryder.)
 1872. A Morning.
 1873. The Old Well. (After J. F. Murphy.)
 Lent by C. Klackner, New York.
 1874. Silence. (After W. Bliss Baker.)
 Lent by C. Klackner, New York.
 1875. Midsummer. (After Daubigny.)
 Lent by C. Klackner, New York.
 1876. Winter Morning. (After D. W. Tryon.)
 Lent by N. E. Montross, New York.
 1877. Autumn Evening. (After D. W. Tryon.)
 Lent by N. E. Montross, New York.
 Kruell, Gustav, East Orange, N. J.
 1878. Portrait of William Lloyd Garrison.
 1879. Abraham Lincoln.
 1880. U. S. Grant.
 1881. Daniel Webster.
 1882. Harriet Beecher Stowe.
 1883. General Sherman.
 1884. William M. Hunt.
 1885. Asa Gray.
 1886. James Russell Lowell.
 1887. Charles Darwin, 1854.
 1888. Charles Darwin at 70.
 1889. Rent Day. (After Alfred Kappe.)
 Lindsay, Albert M., Philadelphia.
 1890. The Coup.
 1891. Bowling.
 1892. The Singing Shepherd.
 1893. A Chinese Restaurant.
 1894. The Golden Wedding.
 1895. Yosemite Dome.
 1896. A Relic of the Departed South.
 1897. Shades of Evening.
 1898. An April Birthday at Sea.
 1899. The Departure to the Convent.
 1900. Presentation of a Circus in a Spanish Town.
 The blocks of the above engravings by Mr. Lindsay are owned by Harper & Bros., New York.
 Lyouns, H. F. W., Boston.
 1901. Nydia.
 1902. Solitude.
 1903. Lost in a Cypress Swamp.
 Meinshausen, George, Cincinnati.
 1904. The Life Boat.
 Lent by R. J. Witer & Co., Cincinnati.
 Miller, William, New York.
 1905. Seven wood engravings in one frame: Sunset. (After George Inness.)
 Bohemienne. (After Franz Hals.)
 Etretat. (After George Inness.)
 Head. (After Rubens.)
 Kiss Me Quick. (After Munier.)
 Baby Mine. (After V. Tojetti.)
 Early Affection. (After V. Tojetti.)

UNITED STATES.

- Muller, R. A., Brooklyn.**
 1906. I Am Perfectly Happy. (After J. G. Brown.)
 1907. The De Brehan Miniature of Washington.
 1908. The De Brehan Miniature of Nelly Custis.
 1909. Sir William Temple. (After Lely.)
 1910. Gilbert Burnett. (After Riley.)
 1911. Lost. (After A. Schenk.)
 1912. Taking of Numantia. (After Vera.)
Pettit, F. A., Brooklyn.
 1913. By the Black Sea.
 1914. Guyskill Mill.
 1915. Centaur.
 1916. Sandhills.
Powell, Caroline A., Trenton, N. J.
 1917. The Resurrection. (After John La Farge.)
 1918. An Organist.
 1919. A Harpist.
 1920. A Bit of Sunshine.
 1921. The Three Marys. (After John La Farge.)
 1922. Lady and Horse. (After A. H. Thayer.)
 1923. Gorilla.
 1924. Bubbles. (After Couture.)
 1925. Windmills.
Putnam, S. G., Corona, Long Island, N. Y.
 1926. Identity. (After Elihu Vedder.)
 1927. Waterfall by Moonlight. (After R. A. Blakelock.)
 1928. Mirabeau and the King's Messenger.
 1929. Princess Marie of Austria.
 1930. A Cozy Corner.
 1931. Carne Castle.
 1932. At the Continental Spring.
 1933. Pirates Seizing a Ship.
 1934. A Sheep Pasture.
Reed, Charles H., Philadelphia.
 1935. Sarah Crew.
 Lent by the Century Co., New York.
 1936. On the Lowest Step of a Deserted House, St. Pasquale.
 Lent by the Ladies' Home Journal, Philadelphia.
Schladitz, E., New York.
 1937. Love Locked Out. (After Anna Lea Merritt.)
 1937½. Grandmother.
 Lent by Harper & Bros., New York.
Schwarzburger, C., Brooklyn.
 1938. Etna. (After Harry Fenn.)
 1939. On the River Thames, Ontario. (After Harry Fenn.)
States, Charles, New York.
 1940. Oriental Street Scene. (After A. Castaigne.)
 1941. Indians in Council.
Sugden, Thomas D., Flushing, L. I., N. Y.
 1942. The Drinking Place.
Sylvester, Harry E., New York.
 1943. Ship in the Fog.
 1944. Twilight, Westminster Cathedral.
 1945. Westminster Cathedral, Early Morning.
 1946. St. Giles' Church.
Tietze, Richard G., New York.
 1947. Elsie Leslie Lyde.
 1948. The Little Frenchman at School.
 1949. Abraham Lincoln and his Son.
Tinke, John, Brooklyn.
 1950. Exchanging Confidences. (After F. C. Jones.)
 1951. All Halloween.
 1952. Swine Herd, River Danube. (After F. D. Millet.)
 1953. Apache Indian Firing on Teamster. (After F. Remington.)
 1954. English Cathedral.
Wellington, Frank H., Passaic, N. J.
 1955. Miles Standish's Challenge. (After E. A. Abbey.)
 1956. One Day in June. (After W. T. Smedley.)
Williams, George P., Philadelphia.
 1957. The Alderman.
 1958. The Gladiators.
Wolf, Henry, New York.
 1959. The Roadside. (After R. Swain Gifford.)
 1960. New England Peddler. (After Eastman Johnson.)
 1961. My Sister Lydia. (After E. C. Tarbell.)
 1962. The Virgin Enthroned. (After A. H. Thayer.)
 1963. Twilight. (After Alexander Harrison.)
 1964. The Portrait. (After Will H. Low.)
 1965. Alice. (After W. M. Chase.)
 1966. Miss Beatrice Goelet. (After J. S. Sargent.)
 1967. Tiger. (After Adolf Menzel.)
 1968. Madonna and Child. (After Dagnan-Bouveret.)
 1969. Thirst. (After Gerôme.)

Miscellaneous Prints.

- Closson, W. B., Lancaster, Mass.**
 1970. Rembrandt's Mother.
 1971. The Belated Bird.
 1972. Nymph and Great Bubble.
 1973. Portrait of Whittier.
 Nos. 1970-1973 are prints from Closson intaglio plates.
 1974. Hawthorne's Boat House. (Relief engraving by a method of Closson's own invention.)
 1975. Helen. (Mezzotint.)
Girsch, F., Mount Vernon, N. Y.
 1976. Grandma's Toast. (After M. R. Dixon.)
 1977. Bank Note Vignettes. (Steel Engraving.)
Moran, Peter, Philadelphia.
 1978. A Country Smithy. (Mezzotint.)
Rosenthal, Max, Philadelphia.
 1979. Romola. (Mezzotint.)
Sartain, John, Philadelphia.
 1980. Irene. (After Coomans. Steel Engraving.)
Sartain, William, New York.
 1981. Symphony. (Mezzotint.)
 1982. Ione. (Mezzotint.)
Schlecht, Charles, New York.
 1983. Eyes to the Blind. (After A. F. Bellows. Steel Engraving.)
 1984. Love's Young Dream. (After Jennie Brownscombe. Steel Engraving.)
 1985. Thoughts by the Sea. (After J. G. Brown. Steel Engraving.)

DEPARTMENT K.—FINE ARTS.

1986. The Smoker. (After Leon Moran. Steel Engraving.)
Schoff, S. A., Greenfield, Mass.
 1987. Marine View. (After M. F. H. De-Haas. Steel Engraving.)
 1988. Portrait of Ralph Waldo Emerson. (After S. W. Rowse. Steel Engraving.)
 1989. The Bathers. (After W. M. Hunt. Steel Engraving.)
Walker, Charles A., Boston.
 1990. Rough Weather. (Monotype.)
 1991. After the Storm. (Monotype.)
 1992. Evening Approaching. (Monotype.)
Wickenden, Robert J., New York.
 1993. The Approach of Evening. (Original Lithograph.)

GROUP 144.

Chalk, Charcoal, Pastel and Other Drawings.

Pastel Drawings.

- Allan, W. R., New York.**
 1994. The Gleaner.
 1995. Landscape.
 1996. Ideal Head.
 1997. A Portrait.
Beaux, Cecilia, Philadelphia.
 1998. Portrait.
 Lent by William Bradshaw, Philadelphia.
Binney, Martha G., New York.
 1999. Sketch of Haystacks.
Brown, J., Appleton, New York.
 2000. Sand Dunes.
 2001. December.
 2002. Springtime.
 2003. Summer.
Cauldwell, Leslie, Paris.
 2004. Evening.
Champney, J. Wells, New York.
 2005. Portrait of Rev. Robert Collyer
 2006. Suzanne.
 2007. Portrait of Mrs. Champney.
Chase, William M., New York.
 2008. Good Friends.
Corwin, Charles A., Chicago.
 2009. Oat Harvest.
Curran, Charles C., New York.
 2010. Night.
 Lent by W.T. Evans, New York.
Du Mond, L. A., Paris.
 2011. Priscilla and John Alden.
Eaton, Charles Warren, New York.
 2012. Wintry Fields.
 2013. Flowers of Autumn.
 2014. December Sunset.
Emmet, Lydia Field, New York.
 2015. A Portrait Sketch by Lamplight.
Hamilton, John McLure, London.
 2016. Cardinal Manning, the Palace, Westminster, 1890.
Harrison, Birge, Paris.
 2017. Evening on the Seine.
Hecker, Caroline F., New York.
 2018. Yellow and White Roses.
 2019. Roses.
Klumpke, Anna E., Boston.
 2020. Portrait of Miss K. H.
 Lent by Miss Lilian Horsford Cambridge, Mass.
MacKubin, Florence, Baltimore.
 2021. Portrait Study in Yellows.

- Mills, Lena, New York.**
 2022. Boy's Head.
 2023. Portrait of a Lady.
Muhrman, Henry, London.
 2024. Trees and Pond, Hampstead Heath.
 2025. Landscape, Hampstead Heath
 2026. Scene on Hampstead Heath.
 2027. Firs and Gorse.
 2028. Houses, Hampstead Heath.
 2029. Vale of Health, Hampstead Heath.
 2030. View of Highgate.
 2031. Old Tree.
 2032. Shells.
 2033. Birch Trees.
 2034. Field of Buttercups.
Reaugh, F., Oak Cliff, Tex.
 2035. Landscape with Cattle.
 2036. February in Texas.
Reynolds, Alice M., New York.
 2037. Portrait.
Rolshoven, Julius, Paris.
 2038. In the Shade.
 2039. Ave Maria.
 2040. Chioggia Fishermen Reading Tasso.
 2041. A Chioggia Fisherman.
Sherwood, Rosina Emmet, New York.
 2042. A Sleeping Child.
 2043. The Black Cockade.
 2044. View in Central Park.
Stewart, Jules L., Paris.
 2045. Portrait of Mrs. Broleman.
 Lent by William H. Stewart, Paris.
Thomson, William, London.
 2046. Study of a Head.
Twachtman, J. H.
 2047. Le Gorge d'Enfer (Throat of Hell).
 Lent by Charles Scribner's Sons, New York.
Wadsworth, Adelaide, Boston.
 2048. Fishing Boats at Anchor, Venice.
Wagner, Jacob, Boston.
 2049. Portrait of My Mother.
Weil, Gertrude, Philadelphia.
 2050. Silence.
Wuerpel, Edward H., Paris.
 2051. Majella, a Study.
 Lent by William Taussig, St. Louis.
Young, Charles Morris, Gettysburg, Pa.
 2052. The Cornfield at Twilight.
- Pen and Ink, Charcoal, Black and White, and Other Drawings.**
Alexander, J. W.
 2053. Skeesicks Adrift from Redwood Camp. (Black and white.)
 Lent by Charles Scribner's Sons, New York.
Abbey, Edwin A.
 2054. As You Like it. Rosalind; "O Jupiter, how weary are my spirits." (Pen drawing.)
 2055. Merry Wives. Fenton; "And tells me 'tis a thing impossible." (Pen drawing.)
 2056. Merchant of Venice. "It falleth like the gentle rain from heaven." (Pen drawing.)
 2057. Merchant of Venice. Portia; "Away then. I'm locked in one of them." (Pen drawing.)
 2058. Tempest. Ferdinand; "I am, in my condition, a prince." (Pen drawing.)

UNITED STATES.

2059. Tempest. Prospero. "Fetch me the hat and rapier." (Pen drawing.)
2060. Tempest. Miranda and Ferdinand. (Pen drawing.)
2061. Tempest. Caliban, Trinculo, Stephano and Ariel invisible. (Pen drawing.)
2062. Tempest. Alonzo, Gonzalo and others enter the circle. (Pen drawing.)
2063. Tempest. Trinculo: "What have we here." (Black and white.)
2064. Measure for Measure. "Sweet sister, let me live." (Pen drawing.)
2065. Measure for Measure. Mariana and boy singing. (Black and white in oil.)
2066. Measure for Measure. Friar Thomas and the Duke. (Black and white in oil.)
2067. Measure for Measure. Angelo and Isabella. (Black and white in oil.)
- The above fourteen illustrations of Shakespeare were lent by Harper & Bros., New York.
- Attwood, Francis Gilbert, Boston.**
- 2068-2077. Ten sketches for "Life." (Pen drawings.)
- Lent by Mitchell & Miller, New York.
- Bacher, Otto H., New York.**
2078. Statue of Ferdinand in the Cathedral at Malaga. (Pen drawing.)
2079. Japanese Armor, 14th Century. (Pen drawing.)
2080. Japanese Armor, 16th Century. (Pen drawing.)
- The above three drawings were lent by the Century Co., New York.
2081. Grain Elevator. (Wash drawing.)
2082. Unloading a Banana Steamer. (Black and white.)
2083. Night Signaling on an Ocean Steamer. (Black and white, oil.)
- Bellew, F. P. W.**
2084. Sketch for "Life." (Pen drawing.)
- Lent by Mitchell & Miller, New York.
- Birch, Reginald B., New York.**
2085. Brother Stolz's Beat. (Wash drawing.)
2086. The Little Lovers. (Black and white.)
- The above two drawings were lent by the Century Co., New York.
- Blashfield, Edwin H., New York.**
2087. The Fairest Maiden. (Pen drawing.)
2088. His Lordship's Bedtime. (Black and white, oil.)
- The above two drawings were lent by the Century Co., New York.
2089. Charms with Holy Water. (Black and white, oil.)
- Lent by Charles Scribner's Sons, New York.
- Bloodgood, Robert F., New York.**
2090. The End of the Outlaw. (Pen drawing.)
- Blum, Robert, New York.**
2091. Wandering Etas. (Pen drawing.)
2092. Japanese Policeman. (Pen drawing.)
2093. A Shop for Lamps. (Pen drawing.)
2094. Japanese Girl. (Pen drawing.)
2095. Its Tiny Head Swung Hither and Thither. (Pen drawing.)
2096. The Ameya. (Pen drawing.)
2097. Be Pleased to Bring in the Honorable Account. (Wash drawing.)
2098. My Eye was Caught by the Gleam of a Brass Doorknob. (Wash drawing.)
2099. She Looked at Me and Spoke Trustingly. (Wash drawing.)
2100. The Tall Ladder of a Fire Station. (Wash drawing.)
2101. Tea Pot and Crockery. (Wash drawing.)
2102. Benteen Cave, Enoshina. (Wash drawing.)
2103. The Amma Japonica. (Pen drawing.)
2104. Where the Proprietor, Stark Naked, Pestles the Paddy. (Wash drawing.)
2105. She Laid her Hand on His Arm. (Wash drawing.)
2106. Head of the Street, Enoshina. (Wash drawing.)
2107. A Street Scene, Enoshina. (Wash drawing.)
2108. Japanese Dinner at Golden Koi. (Wash drawing.)
2109. A Little City Back Yard. (Wash drawing.)
2110. Watching the Election Returns, Japan. (Wash drawing.)
2111. A Begging Priest. (Black and white.)
2112. On the Hillside at Enoshina. (Black and white.)
- The above twenty-two drawings were lent by Charles Scribner's Sons, New York.
2113. The Plankway to Benteen Cave. (Wash drawing.)
2114. Fray Innocencio and Flojo. (Pen drawing.)
2115. The Man is Dead He Said. (Black and white.)
- Broughton, C.**
2116. Fifth Avenue Stage. (Pen drawing.)
- (Lent by Mitchell & Miller, New York.)
- Bradley, Horace, New York.**
2117. Still Life Class Room. Art Student's League, N. Y.
- Burns, M. J.**
2118. By George! I've Got Him. (Black and white.)
2119. Working Drops and Borders from the First Fly Gallery. (Black and white.)
2120. Danger Ahead! (Black and white.)
2121. Interior of a Round House. (Black and white, in oil.)
- The above four drawings were lent by Charles Scribner's Sons, New York.
- Castaigne, A., Baltimore.**
2122. Queen of the Felibres, Provence. (Charcoal drawing.)
2123. Portrait of Mile. Roumanille. (Charcoal drawing.)
2124. Open Air Theatre, Provence. (Charcoal drawing.)
2125. The Shops of Catelan, Provence. (Charcoal drawing.)
2126. Shop of Roumanille. (Black and white.)
2127. Preparing for the Final Dance. (Black and white, oil.)

DEPARTMENT K.—FINE ARTS.

2128. Circling the Lodges. (Black and white, oil.)
2129. The Dance Was in Full Swing. (Black and white, oil.)
2130. Festival of the Felibres, Provence. To Mistral. (Black and white, in oil.)
2131. Running through Vers, Provence. (Black and white, in oil.)
2132. Good-bye at Nîmes, Provence. (Black and white, in oil.)
2133. Inn Yard at Collias, Provence. (Black and white, in oil.)
2134. Isle of La Barthelasse at Night, Provence. (Black and white, in oil.)
2135. Up the Maiensi Pass. (Black and white, in oil.)
2136. L'Isle sur Jurgues. (Black and white, in oil.)
2137. On the Otomi Pass, Japan. (Black and white, in oil.)
The above sixteen drawings were lent by the Century Co., New York.
2138. On a Great Cattle Trail. (Black and white, oil.)
Lent by Charles Scribner's Sons, New York.
Chapman, Carlton T., New York.
2139. Port of Valparaiso in a Norther. (Wash drawing.)
2140. White Star Steamer Majestic. (Black and white.)
2141. The Largest Steamer on the Lakes. (Black and white.)
The above three drawings were lent by Charles Scribner's Sons, New York.
Chase, William M., New York.
2142. Like Mother Like Daughter. (Pencil drawing.) Lent by Harper & Bros., New York.
Church, F. S., New York.
2143. Flapjacks. (Black and white.)
Lent by Harper & Bros., New York.
2144. Sketch for Window for Tiffany Glass Co. (Black and white.)
Cox, Kenyon, New York.
2145. M. Daubray of the Palais Royal. (Pen drawing, after photo.)
Lent by Charles Scribner's Sons, New York.
2146. Bust of J. Alden Weir, by Olin Warner. (Pen drawing.)
2147. Veiled Moorish Woman. (Pen drawing, after photo.)
2148. The Iroquois Arrow. (Black and white, oil.)
2149. Reading in the Chapter Room, La Trappe. (Black and white, oil.)
The above four drawings were lent by the Century Co., New York.
Day, Francis, Nutley, N. J.
2150. Reluctant, She Turned to Him. (Wash drawing.)
Lent by the Century Co., New York.
Denman, Herbert.
2151. Satisfactory as any Visitors Are the Children. (Black and white, oil.)
2152. Another Visitor Who Never Misses a Welcome, is the Bringer of Eatables. (Black and white, oil.)
The above two pictures were lent by Charles Scribner's Sons, New York.
Du Mond, F. V., New York.
2153. Bamboula. (Black and white.)
2154. Tryste Noël. (Scratch.)
The above two drawings were lent by Harper & Bros., New York.
2155. Madonna. (Black and white, oil.)
2156. Holding Tight to Patty's Hand. (Black and white, oil.)
The above two drawings were lent by the Century Co., New York.
Eaton, Wyatt.
2157. Asleep Upon the Grass. (Pen drawing.)
Lent by Charles Scribner's Sons, New York.
Edwards, George Wharton, New York.
2158. One Would Have Thought She was Really a Boy. (Black and white.)
2159. At Dinner. (Black and white.)
The above two drawings were lent by the Century Co., New York.
- Fenn, Harry, Montclair, N. J.**
2160. Sepulchres of Ferdinand and Isabella, Philip, and Joanna in the Royal Chapel, Granada. (Pen drawing.)
2161. Escutcheon and Fireplace in the Manor House, Gardiner's Island. (Pen drawing.)
2162. Castillo de la Mota, near Medina, Spain. (Wash drawing.)
2163. Kiga. (Wash drawing.)
2164. First Glimpse of the Kusneh, Petra. (Black and white.)
2165. Tower of Trinity Church, Boston. (Black and white.)
The above seven drawings were lent by the Century Co., New York.
2166. Rousseau's House and Stairs to Studio, at His Death, 1867. (Black and white.)
2167. East End of Ganne's Hotel, Barbizon. (Black and white.)
The above two drawings were lent by Charles Scribner's Sons, New York.
2168. On the Common, Gardiner's Island. (Black and white.)
Ferris, Stephen J., Philadelphia.
2169. Fortuny Lying in State. (Crayon.)
Lent by Edward H. Coates, Philadelphia.
- Fraser, John A., New York.**
2170. Back of the Village, Chiddingstone, Kent. (Black and white.)
2171. Cathedral Rocks, Yosemite. (Black and white.)
2172. Sentinel Rock. (Black and white.)
The above two pictures were lent by the Century Co., New York.
2173. The Corner, Kent. (Wash drawing.)

UNITED STATES.

- Fraser, Malcolm, Paris.**
 2174. The Road to Johore—A Malay Village. (Wash drawing.)
 Lent by the Century Co., New York.
- Frost, A.B., Courent, Morris County, N. J.**
 2175. Have You Happened to Hear Anybody Speak of Me? (Pen drawing.)
 2176. Is Dese yer Bobolitionists Got Horns n' Huffs? (Pen drawing.)
 The above two drawings were lent by the Century Co., New York.
2177. The Negro Leaned, Exhausted, Against the Wall. (Pen drawing.)
 2178. Men at a Card Table. (Pen drawing.)
 2179. An' then He Marched off to Bed by Himself. (Pen drawing.)
 2180. We'll All Swa'r to it. (Wash drawing.)
 2181. If You Pull that Trigger and Hit the Mark, Ye can Ride off Free. (Wash drawing.)
 2182. Dead as a Hammer—Ain't He, Mac? (Wash drawing.)
 The above six drawings were lent by Charles Scribner's Sons, New York.
2183. A Prize. (Black and white.)
 2184. Fishing for Striped Bass in the Surf. (Black and white.)
 2185. The Ice Harvest. (Black and white.)
 2186. Missed Him Agin, by Ginger! (Black and white.)
 2187. Quail Shooting—Four Barrels and Four Birds. (Black and white.)
 The above five drawings were lent by Harper & Bros., New York.
- Gates, J. H.**
 2188. A Sketch, for "Life." (Black and white.)
 Lent by Mitchell & Miller, New York.
- Gaul, Gilbert, New York.**
 2189. A Pulque Carrier, Mexico. (Black and white in oil.)
 2190. The Journey in the Market Cart. (Black and white in oil.)
 2191. Landing at Chagres. (Black and white in oil.)
 2192. Pleasant Weather in the Gulf. (Black and white in oil.)
 2193. Gorgona, Panama. (Black and white in oil.)
 2194. The Pilot, Jamaica. (Black and white in oil.)
 2195. The Kitchen, Jamaica. (Black and white in oil.)
 2196. Pleased. A Cheer for the Old Flag. (Black and white in oil.)
 2197. The Master's Lunch, Jamaica. (Black and white in oil.)
 2198. Dining-room, French's Hotel, Panama. (Black and white in oil.)
 2199. The Steamer is in Panama. (Black and white in oil.)
 2200. A Crowded Steamer. To California in 1849. (Black and white, oil.)
 The above twelve drawings were lent by the Century Co., New York.
- Gibson, C. D., New York.**
 2201. Yes, it is too Bad. (Pen drawing.)
2202. You Must Tell Your Friend Not to be Frightened at the House. (Pen drawing.)
 2203. Awfully Kind of You to Come to Our Little Shanty in the Wilderness. (Pen drawing.)
 2204. And the Two Smoked in Silence. (Pen drawing.)
 2205. Aren't You Pleased With Me? (Pen drawing.)
 2206. Debutantes Leaning on His Arm. (Pen drawing.)
 2207. The Young Men in the House Thought Her a Jolly Girl. (Pen drawing.)
 2208. Mrs. Vernon had Crossed the Rubicon. (Pen drawing.)
 2209. He is Waiting for Me. (Pen drawing.)
 2210. Lord and Lady William Hampshire. (Pen drawing.)
 2211. We are Behind Time, Mrs. Van Benson and I. (Pen drawing.)
 2212. When Luella Lost Her Grip. (Pen drawing.)
 2213. The Meeting in Mrs. Van Shuter's Empire Room. (Pen drawing.)
 2214. I Am Glad that Tempest in a Teapot is Over. (Pen drawing.)
 The above fourteen drawings were lent by the Century Co., New York.
2215. Her First Appearance. (Pen drawing.)
 2216. The American Girl. (Pen drawing.)
 The above two drawings were lent by Harper & Bros., New York.
2217. I Wish to God You Were Out of the Business. (Wash drawing.)
 2218. In the Studio. (Wash drawing.)
 2219. A Serious Question. (Wash drawing.)
 The above three drawings were lent by Charles Scribner's Sons, New York.
2220. Cartoon, for "Life." (Pen drawing.)
 Lent by Mitchell & Miller, New York.
2221. Two Girls and a Man. (Pen drawing.)
 2222. The Jury. (Pen drawing.)
 2223. In the Moonlight. (Pen drawing.)
 2224. Drifting Apart. (Pen drawing.)
 2225. Will Penelope Land the Baron? (Pen drawing.)
 2226. At Mrs. Flatsharp's. (Pen drawing.)
 2227. The Prisoner at the Bar. (Pen drawing.)
 2228. Time! (Pen drawing.)
 2229. In Leap Year. (Pen drawing.)
 2230. In Leap Year Starting on Their Wedding Journey. (Pen drawing.)
 2231. In Leap Year. After Having Kept the Men Waiting. (Pen drawing.)
 2232. The Horse Show. (Pen drawing.)
 2233. That Delicious Moment When You are Asked to Take in to Dinner the Girl Who Refused You Yesterday. (Pen drawing.)
 2234. A Summer Vacation. (Pen drawing.)
 2235. Fourth of July. (Pen drawing.)
 2236. At Mrs. Van Tappan's. (Pen drawing.)
 2237. At Mrs. Daubleigh Chromé's. (Pen drawing.)
 2238. At the Gentlemen's Chowder Club. (Pen drawing.)

DEPARTMENT K.—FINE ARTS.

- Gibson, W. Hamilton, Brooklyn.**
 2239. Night Hawk. (Pen drawing.)
 2240. Orange Boughs. (Charcoal.)
 2241. A Misty Morning. (Smoke.)
 2242. Los Loros, Andes. (Black and white.)
 2243. A California Garden. (Black and white.)
 2244. The Bobolink at Home. (Black and white.)
 2245. A Midnight Tragedy. (Black and white.)
 2246. The Wild Garden. (Black and white.)
 2247. A Winter Ravine. (Black and white.)
 2248. The Sly Silver Fox. (Black and white.)
 2249. Cyrepedium Spectabile. (Black and white.)
 2250. A Relic of the Departed South. (Black and white.)
 2251. A Southern Canebrake Jungle. (Black and white.)
 2252. On Bayou Teche, Louisiana. (Black and white.)
Hammer, John J., New York.
 2253. Study Head. (Charcoal.)
Helmick, Howard, Washington, D.C.
 2254. Many a Bride Slipped from Aboard Her Husband's Whaler. (Black and white.)
 2255. Faith'd Fetch It. (Black and white.)
 2256. On the Floor Lay Berrian Cozart. (Black and white, oil.)
 The above three drawings were lent by the Century Co., New York.
Herford, O.
 2257. Sketch, for "Life." (Pen drawing.)
 Lent by Mitchell & Miller, New York.
Hitchcock, George.
 2258. A North Sea Dutch Fisherman. (Wash drawing.)
 2259. Corner of a Dutch Captain's Kitchen. (Black and white.)
 2260. Dutch Fishing Boats.
 The above three drawings were lent by Charles Scribner's Sons, New York.
Hyde, W. H., New York.
 2261. At Home. (Pen drawing.)
Johnson, C. H.
 2262. Sketch No. 1, for "Life." (Pen drawing.)
 2263. Sketch No. 2, for "Life." (Wash drawing.)
 Lent by Mitchell & Miller, New York.
Kemble, E. W., New Rochelle, N.Y.
 2264. Have You Forgot Your Brother Ab, Peggy? (Pen drawing.)
 2265. Sergeant Bowers Receiving Orders. (Pen drawing.)
 2266. Sperrits. (Pen drawing.)
 2267. The Plantation Bell. (Pen drawing.)
 2268. Food for the Confederate Wounded. (Pen drawing.)
 2269. A Race Problem. (Pen drawing.)
 2270. The Cake Walk. (Pen drawing.)
 2271. Polly Ann. (Pen drawing.)
 2272. Uncle Peter Bean. In the Cotton Mill, Georgia. (Two pen drawings.)
 2273. A Field Hand. (Pen drawing.)
 2274. Like an Ebony Statue of Liberty (Wash drawing.)
 2275. Saving His Master. (Black and white.)
 The above thirteen drawings were lent by the Century Co., New York.
Low, Will H., New York.
 2276. Through Our Tendriled Arches the Famed Æolian Quire. (Black and white.)
 Lent by the Century Co New York.
 2277. Old Field at Barbizon. (Wash.)
 2278. Narcissus. (Black and white, oil.)
 The above two drawings were lent by Charles Scribner's Sons, New York.
Millet, F. D., New York.
 2279. Study of Heads. (Pen drawing.)
 2280. A Prisoner. (Pencil.)
 2281. In the Supper Room. (Black and white.)
 2282. Camel Driver. (Black and white.)
 2283. Driving a Team. (Black and white.)
Meza, Wilson de, Lakewood, N. J.
 2284. Sketch No. 1, for "Life." (Black and white.)
 2285. Sketch No. 2, for "Life." (Black and white.)
 2286. Sketch No. 3, for "Life." (Black and white.)
 The above three sketches were lent by Mitchell & Miller, New York.
 2287. Drawing for Illustration. (Black and white.)
 2288. When Through Feast-Litten Halls. (Black and white.)
Metcalf, W. L.
 2289. Stinnerd House, Pelham Bay Park. (Pen drawing.)
 2290. The Picture Gallery. (Black and white.)
 2291. He Drove the Knife Through His Hand. (Black and white.)
 2292. Cable Hut at Shore End. (Black and white, oil.)
 The above four drawings were lent by Charles Scribner's Sons, New York.
Mowbray, A. Siddons.
 2293. Ben Hur. (Black and white, oil.)
 Lent by Harper & Bros., New York.
Newell, R. S.
 2294. A Reminder of Old Virginia. (Black and white.)
 Lent by Harper & Bros., New York.
Nichols, H. D.
 2295. Interior of Manufactures and Liberal Arts Building, W. C. E. (Black and white.)
 Lent by Harper & Bros., New York.
Pape, Frederick S. M., Paris.
 2296. The Sphinx by Moonlight. (Pen drawing.)
 Lent by Century Co., New York.
Parsons, Alfred, New York.
 2297. Crossing Weir. (Wash drawing.)
 2298. In Silistria. (White and black.)
 2299. Singing Shepherd. (White and black.)
 2300. Pig Wallow. (Black and white.)
 2301. Ischatal, St. George. (Black and white.)

UNITED STATES.

2302. Camp opposite Kalafat. (Black and white.)
The above six drawings were lent by Harper & Bros., New York.
2303. The Snowdrop. (Black and white.)
2304. Daffodils. (Black and white.)
Pennell, Joseph, London.
2305. St. Edmund's Chapel, Westminster Abbey. (Pen drawing.)
2306. York Cathedral: Chapter House, Fair-Sisters, and Central Tower. (Pen drawings.)
2307. Old Battersea Church, Chelsea. (Pen drawing.)
2308. One Bay of the Angel Choir, Lincoln Cathedral. (Pen drawing.)
2309. Western Part of Ely Cathedral, from Garden in Close. (Pen drawing.)
2310. Sally Harrowell's Shop, Rugby. (Pen drawing.)
2311. Florence from Boccaccio's Villa. (Pen drawing.)
2312. In the Garden, Boccaccio's Villa. (Pen drawing.)
2313. In the Nave, Westminster Abbey. (Pen drawing.)
2314. Villa on the Road to Fiesole. (Pen drawing.)
2315. Northwest View of Gloucester Cathedral. (Pen drawing.)
2316. South Side of Lincoln Cathedral. (Pen drawing.)
2317. Well's Cathedral Choir, Looking East. (Pen drawing.)
2318. Dryden's Monument, Westminster Abbey. (Pen drawing.)
2319. Winchester Cathedral Choir and Presbytery, Looking East. (Pen drawing.)
2320. The Vicar's Close, Well's Cathedral. (Wash drawing.)
2321. Well's Cathedral Nave, Looking East. (Wash drawing.)
2322. Wargrave; Sonning Bridge; Landing at Richmond. (Wash drawings.)
2323. Gloucester Cathedral Nave from the North Aisle. (Wash drawing.)
The above drawings by Pennell were lent by the Century Co., New York.
2324. Four Pen Drawings from Charing Cross to St. Paul's.
2325. Five Pen Drawings from Charing Cross to St. Paul's. (1)
2326. Five Pen Drawings from Charing Cross to St. Paul's. (2)
2327. Six Pen Drawings from Charing Cross to St. Paul's. (1)
2328. Six Pen Drawings from Charing Cross to St. Paul's. (2)
Pennington, Harper, New York.
2329. In the Workshop, Philadelphia Manual Training School. (Black and white.) Lent by the Century Co., New York.
- Perard, Victor.**
2330. River Police Patrol Boat. (Wash drawing.)
2331. Pelham Park. (Wash drawing.)
The above two drawings were lent by Charles Scribner's Sons, New York.
- Pyle, Howard, Wilmington, Del.**
2332. In the Valley. (1) (Black and white in oil.)
2333. In the Valley. (2) (Black and white in oil.)
2334. In the Valley. (3) (Black and white in oil.)
2335. The Oak of Geismar. (Black and white in oil.)
2336. Gambetta Proclaiming the Republic. (Black and white in oil.)
2337. A Moment Later There was a Great Hammering at the Door. (Black and white in oil.)
The above six drawings were lent by Charles Scribner's Sons, New York.
2338. Indian Woman Saving the Life of John Brown. (Black and white, oil.)
2339. Along the Canal in Old Manhattan. (Black and white, oil.)
The above two drawings were lent by Harper & Bros., New York.
2340. They Used to Drill Every Evening. (Black and white.)
Lent by the Century Co., New York.
- Redwood, Allen C., Bergen Point, N. J.**
2341. Barksdale's Mississippians Opposing Laying of Pontoon Bridges. (Pen drawing.)
2342. A Camp Toilet. (Pen drawing.)
2343. I'm Ready to Begin Right Now. (Black and white.)
2344. General Grant Can't Have any Water from this Spring. (Black and white.)
2345. Perpetual Motion. (Black and white.) Here. (Black and white.)
2346. Our March Against Pope. (Pen drawing.)
- A Stag Dance. (Black and white.)
2347. The Retreat from Gettysburg. (Black and white.)
2348. Dress Parade. (Black and white.)
The above ten drawings were lent by the Century Co., New York.
- Reinhart, Charles S., New York.**
2349. A Kissing Gate. (Pen drawing.)
2350. Government Wharf, Fort Monroe. (Pen drawing.)
2351. Up the Hudson. (Pen drawing.)
2352. Portrait of Charles Dudley Warner. (Charcoal.)
2353. A Near-Sighted Deputy. (Charcoal.)
2354. Liberal and Conservative. (Charcoal.)
2355. A Tramp. (Charcoal.)
2356. Christmas Morning. (Charcoal.)
2357. Illustration. (Black and white.)
2358. Skating. (Wash drawing.)
- Remington, Frederick, New Rochelle, N. Y.**
2359. Roping in a Horse, Corral. (Pen drawing.)
2360. The Old Trapper. (Pen drawing.)
2361. A Member of the Mounted Police, Canada. (Pen drawing.)
2362. Infantry Covering the Withdrawal of Cavalry. (Wash drawing.)
2363. Behind the Breastworks, Besieged by Utes. (Wash drawing.)

DEPARTMENT K.—FINE ARTS.

2364. A Sample Steed. (Black and white.)
 2365. A War Party of Comanches "Jumping" a Hunter's Camp. (Black and white.)
 2366. Splitting the Buffalo Herd. (Black and white, oil.)
 2367. "Boots and Saddles." (Black and white, oil.)
 The above nine drawings were lent by the Century Co., New York.
 2368. Rounding Up. (Wash drawing.)
 2369. Pitching Broncos. (Wash drawing.)
 2370. General Miles Reviewing the Mexican Army. (Wash drawing.)
 2371. Polish Village. (Wash drawing.)
 2372. Some Idle Notes on "The Most Noble Profession" in Europe. (Wash drawing.)
 2373. At the Horse Show. (Wash drawing.)
 The above six drawings were lent by Harper & Bros., New York.
Rhodes, Charles W., Chicago.
 2374. Study Head. (Charcoal.)
Robinson, Theodore, New York.
 2375. Claude Monet. (Charcoal.)
Rogers, W. A., New York.
 2376. Home, Sweet Home.
 2377. You Put in Two Dollars and Eight Cents. (Pen drawing.)
 2378. Lost (Black and white.)
 2379. Three Cheers for the First Sod. (Black and white.)
 2380. In the Narrow Trail. (Black and white.) The above five drawings were lent by the Century Co., New York.
 2381. Sketch No. 1, for "Life." (Pen drawing.)
 2382. Sketch No. 2, for "Life." (Pen drawing.)
 2383. Sketch No. 3, for "Life." (Pen drawing.)
 2384. Sketch No. 4, for "Life." (Pen drawing.)
 The above four drawings were lent by Mitchell & Miller, New York.
 2385. The Postman. (Pen drawing.)
 2386. Armed Peace. (Pen drawing.)
 2387. The Chapel Steps. (Pen drawing.)
 2388. The Call for Trumps. (Pen drawing.)
 2389. Sunday in the Park. (Pen drawing.)
 2390. Museum Treasures. (Pen drawing.)
 2391. Inauguration Ball. (Pen drawing.)
 2392. A Tug of War. (Pen drawing.)
 2393. A Belle of Greenwich (Wash drawing)
 2394. Broadway Stage, 1831. (Black and white.)
 2395. Prologue to "She." (Black and white.)
 2396. Camp Fire. (Black and white.)
 2397. Out of the Game. (Black and white.)
 2398. Arab Colony of New York. (Black and white.)
 2399. No Frost Within. (Black and white.)
 2400. The Salvation Army. (Black and white.)
Sandham, Henry, Boston.
 2401. Snow-shoeing by Torchlight. (Black and white.)
 Lent by the Century Co., New York.
Shirlaw, Walter, New York.
 2402. Broad Street Railway Station, Philadelphia. (Black and white.)
 Lent by Charles Scribner's Sons, New York.
Small, Frank O., Boston.
 2403. Pop Concert. (Black and white.)
 2404. The Last Picnic of the Season. (Black and white.)
 The above two drawings were lent by Harper & Bros., New York.
 2405. The Dawn Struggling with the Night. (Black and white.)
 2406. A Forgotten Ancestor. (Black and white.)
 2407. Christmas Presents at the Breakfast Table. (Black and white.)
 2408. Afternoon, Commonwealth Avenue, Boston. (Black and white.)
 2409. Said in Passing. (Black and white.)
 2410. Sketch No. 1, for "Life." (Black and white.)
 Lent by Mitchell & Miller, New York.
Smedley, W. T., New York.
 2411. Exhibition Grounds in 1891. (Black and white.)
 2412. Before the Agricultural Building. (Black and white.)
 2413. Lake Front—side of main building. (Black and white.)
 The above three drawings were lent by Charles Scribner's Sons, New York.
 2414. At the Hotel. (Black and white.)
 Lent by Harper & Bros., New York.
 2415. In a Restaurant. (Pencil.)
 2416. Illustration. (Black and white.)
 2417. Old Guard Ball. (Black and white.)
 2418. An Invitation to the Dance. (Black and white.)
 2419. In the House of Representatives. (Black and white.)
 2420. Cowboy. (Black and white.)
 2421. Illustration. (Wash drawing.)
 2422. Ladies' Gallery, House of Representatives. (Black and white.)
 2423. Easter Lilies. (Black and white.)
 2424. Broadway at Night. (Black and white.)
 2425. Promenade Concert, Madison Square Garden. (Black and white.)
 2426. A Bishop. (Black and white.)
 2427. Relics of George Washington. (Black and white.)
 2428. Onnalinda. (Black and white.)
 2429. When the Tide Comes in. (Black and white.)
 2430. Jane Field, I aint Esther Maxwell. (Black and white.)
 2431. On the Rocks at Narragansett Pier. (Black and white.)
 2432. Sunday Morning, Fifth Avenue. (Black and white.)
 2433. A King's Daughter. (Black and white.)
 2434. Christmas Shopping. (Black and white.)
 2435. On the Down Town Ferry. (Black and white.)
 2436. A Bit of Decoration. (Black and white.)

* UNITED STATES.

2437. **Smith, F. Hopkinson, New York.**
It Was Near the Close of a Summer Afternoon. (Charcoal.)
Lent by Charles Scribner's Sons, New York.
2438. Windmill. (Charcoal.)
2439. Scene in Venice. (Black and white.)
Stephens, Alice Barber, Philadelphia.
2440. Music. (Black and white.)
Lent by Ladies' Home Journal Philadelphia.
2441. Their Perfume Flooded the House. (Black and white.)
Lent by Leslie's Weekly, New York.
2442. Philadelphia Quaker. (Wash drawing.)
Sterner, Albert E., Paris.
2443. Champigny. (Pen drawing.)
2444. My Cousin Fanny. (Pencil, with pen and ink remarque.)
2445. Where is That Idiot, That Dolt, That Sluggard, That Snail, with My Mail? (Wash drawing.)
2446. Walking Away With a Shrug of the Shoulders. (Wash drawing.)
2447. I Wept, I Wept, I Wept. (Black and white.)
2448. Passionnement was What I Wanted. The above six drawings were lent by the Century Co., New York.
2449. No Pertinacity. (Pen drawing.)
2450. The Rivals. (Wash drawing.)
The above two drawings were lent by Harper & Bros., New York.
- Taber, W., New York.**
2451. A Rescue. (Wash drawing.)
2452. The Hanging of Stuart by the First Vigilance Committee. (Pen drawing.)
2453. Mission Dolores, Sunday Afternoon. (Pioneer California.) (Pen drawing.)
The above three drawings were lent by the Century Co., New York.
- Taylor, Charles J., New York.**
2454. The Ingle Nook. (Pen drawing.)
Lent by W. C. Gibson, Port Chester, N. Y.
2455. Quarrel in the Tavern. (Black and white.) Lent by A. Schwarzmann.
2456. The Poet at the Breakfast Table. (Pen drawing.)
2457. Two Girls. (Pen drawing.)
2458. A Question of Wines. (Pen drawing.)
2459. At the Luncheon. (Pen drawing.)
2460. Gossip. (Pen drawing.)
2461. Hiring a Butler. (Pen drawing.)
Taylor, W. L.
2462. On the Beach. (Wash drawing.)
Lent by Charles Scribner's Sons, New York.
- Thompson, Ernest E.**
2463. At Midday. The Last of the Buffaloes. (Wash drawing.)
Lent by Charles Scribner's Sons, New York.
- Thulstrup, T. de, New York.**
2464. Joseph Choate. (Wash drawing.)
2465. Columbian Exposition, Workers in Staff. (Black and white.)
2466. Belated Passenger. (Black and white.)
2467. An Evening at the Horse Show. (Black and white.)
2468. Admiral Walker. (Black and white.)
The above five drawings were lent by Harper & Bros., New York.
2469. The Three Hussars. (Black and white.)
Lent by Charles Scribner's Sons, New York.
2470. The Dinner Table in a Norwegian Farmhouse. (Black and white.)
2471. A Moujik's Funeral. (Black and white.)
2472. Norwegian Fisher Family. (Black and white.)
2473. At the Traktier's. (Black and white.)
2474. Kroll's Garden, Berlin. (Black and white.)
2475. Military Road in the Caucasus. (Black and white.)
2476. Circassians of the Imperial Guard. (Black and white.)
2477. Georgian Princes. (Black and white.)
2478. The Yachting Party. (Black and white.)
2479. Persian Bazar at Nijni Novgorod. (Black and white.)
2480. Horse Artillery Going into Action. (Black and white.)
2481. Crossing the Channel. (Black and white, oil.)
- Tyler, Bayard H., New York.**
2482. Group of Trees. (Charcoal.)
2483. Indian Head, Palisades. (Charcoal.)
Van Schaick, S. W.
2484. Sketch No. 1, for "Life." (Black and white.)
2485. Sketch No. 2, for "Life." (Black and white.)
2486. Sketch No. 3, for "Life." (Black and white.)
2487. Sketch No. 4, for "Life." (Black and white.)
2488. Sketch No. 5, for "Life." (Black and white.)
2489. Sketch No. 6, for "Life." (Black and white.)
- Wenzell, A. B., New York.**
2490. Won't You take Me to My Aunty? (Black and white.)
2491. She Came Downstairs in a Great Fur-trimmed Robe. (Black and white.)
The above two drawings were lent by the Century Co., New York.
2492. The Diamonds. (Black and white.)
Lent by Harper & Bros., New York
2493. Sketch No. 1, for "Life." (Black and white.)
2494. Sketch No. 2, for "Life." (Black and white.)
2495. Sketch No. 3, for "Life." (Black and white.)
2496. Sketch No. 4, for "Life." (Black and white.)
2497. Sketch No. 5, for "Life." (Black and white.)
2498. Sketch No. 6, for "Life." (Black and white.)
2499. Sketch No. 7, for "Life." (Black and white, oil.)

DEPARTMENT K.—FINE ARTS.

2500. Sketch No. 8, for "Life." (Black and white.)
 2501. Sketch No. 9, for "Life." (Black and white.)
 2502. Sketch No. 10, for "Life." (Black and white.)
 2503. Sketch No. 11, for "Life." (Black and white.)
 2504. Sketch No. 12, for "Life." (Black and white.)

The above twelve sketches were lent by Mitchell & Miller, New York.

- Wickenden, Robert J., New York.**
 2505. Study of Oaks.
Wiles, Irving R., New York.
 2506. Ignace Jan Paderewski. (Charcoal.)
 2507. I ain't Religious; I Drink. (Wash drawing.)
 2508. In the Dining Room, Y. W. C. A. (Wash drawing.)
 2509. Photo Negative Retouching, Y. W. C. A. (Wash drawing.)
 2510. The Salesroom, Y. W. C. A. (Wash drawing.)
 2511. Cohanin Blessing the People. (Wash drawing.)
 2512. A Jewish Wedding. (Wash drawing.)
 2513. Confirmation, Temple Emanu-El. (Wash drawing.)
 2514. The Choir. (Wash drawing.)
 2515. Class in Phonography. (Wash drawing.)
 2516. Rock of Ages. (Black and white, oil.)
 The above eleven drawings were lent by the Century Co., New York.

GROUP 146.

LOAN COLLECTION.

Foreign Works From Private Galleries in the United States.

- Alma-Tadema, Lawrence, London.**
 2868. A Reading from Homer.
 Lent by Mr. Henry G. Marquand, New York.
Bastien-Lepage, Jules, 1848-1885, France.
 2869. The Thames.
 Lent by Mr. John G. Johnson, Philadelphia.
 2870. Revery.
 Lent by Mr. Potter Palmer, Chicago.
Besnard, Paul-Albert, Paris.
 2871. Head.
 Lent by Mr. Potter Palmer, Chicago.
Bonheur, Mlle. Rosa, Paris.
 2872. Sheep.
 Lent by Gen. Russell A. Alger, Detroit.
 2873. Pastoral.
 Lent from the collection of the late Mr. Jay Gould, New York.
Bonington, Richard P., 1801-1828, England.
 2874. Landscape.
 Lent by Mr. R. Hall McCormick, Chicago.

- Breton, Jules-Adolphe, Paris.**
 2875. The Song of the Lark.
 Lent by Mrs. Henry Field, Chicago.
 2876. Colza-gatherers.
 Lent by Mr. Collis P. Huntington, New York.
Carolus-Duran, Paris.
 2877. An Odalisque.
 Lent by Mr. William Buchanan, New York.
 2878. Portrait of Madam Modjeska.
 Lent by the Pennsylvania Academy of the Fine Arts, Philadelphia.
Cazin, Jean-Charles, Paris.
 2879. The Expulsion from Paradise.
 Lent by Mr. Potter Palmer, Chicago.
 2880. Elsinore.
 Lent by Mr. Potter Palmer, Chicago.
 2881. Flight into Egypt.
 Lent by Mr. Potter Palmer, Chicago.
 2882. Midnight Moonlight, Abbeville, France.
 Lent by Charles T. Yerkes, Chicago.
Constable, John, 1776-1837, England.
 2883. Weymouth Bay.
 Lent by Mr. William H. Fuller, New York.
 2884. The Lock. (Lent by Mrs. Henry Field, Chicago.)
 2885. Shepherd and Flock — Dedham Church in the distance.
 Lent by R. Hall McCormick, Chicago.
Corot, Jean-Baptiste-Camille, 1796-1875, France.
 2886. The Flight from Sodom.
 Lent by Mr. Henry O. Havemeyer, New York.
 2887. Orpheus.
 Lent by Mr. Potter Palmer, Chicago.
 2888. Shrimp-fisher.
 Lent by Mr. Potter Palmer, Chicago.
 2889. Landscape.
 Lent by Mr. Potter Palmer, Chicago.
 2890. Dance of the Nymphs.
 Lent by Mr. William H. Crocker, San Francisco.
 2891. Evening.
 Lent from the collection of the late Mr. Jay Gould, New York.
 2892. The Path to the Village.
 Lent by Mr. Charles T. Yerkes, Chicago.
 2893. Environs of Ville d'Avray, France.
 Lent by Mr. Charles T. Yerkes, Chicago.
 2894. Landscape.
 Lent by Mr. Gardiner G. Hubbard, Washington, D. C.
 2895. Old Man Seated on Corot's Trunk in the Artist's Chamber in Rome.
 Lent by Dr. Henry C. Angell, Boston.

UNITED STATES.

2896. Evening.
Lent by Mr. Alfred Corning Clark, New York.
2897. The Inn.
Lent by Mr. Martin A. Ryerson, Chicago.
- Courbet Gustave, 1819-1877, France.**
2898. Dogs and Hare.
Lent by Henry O. Havemeyer, New York.
- Couture, Thomas, 1815-1879, France.**
2899. Portrait of Madame Couture.
Lent by the Museum of Fine Arts, Boston.
- Dagnan-Bouveret, Adolphe-Pascal-Jean, Paris.**
2900. La Bernoise.
Lent by Mr. John G. Johnson, Philadelphia.
2901. Brittany Peasant Girl.
Lent by Mr. J. H. Wade, Cleveland.
- Daubigny, Charles-Francois, 1817-1878, France.**
2902. The Cooper's Shop.
Lent by Mr. Francis Bartlett, Boston.
2903. Banks of the Oise, Auvers-Sur-Oise, France.
Lent by Mr. Charles T. Yerkes, Chicago.
2904. Coast near Dieppe.
Lent by Mr. Alfred Corning Clark, New York.
- Decamps, Alexandre-Gabriel, 1803-1860, France.**
2905. Oriental Kiosk.
Lent by Mr. Martin A. Ryerson, Chicago.
- Degas, Paris.**
2906. The Dancing Lesson.
Lent by Mr. Alexander J. Cassatt, Philadelphia.
2907. Race Horses.
Lent by Mr. Albert Spencer, New York.
- Delacroix, Ferdinand-Victor-Eugène, 1798-1863, France.**
2908. Christ at the Tomb.
Lent by Mr. Alfred Corning Clark, New York.
2909. Tiger Quenching his Thirst.
Lent by Mr. Alfred Corning Clark, New York.
2910. Turks Abducting a Girl.
Lent by Mr. William H. Crocker, San Francisco.
- Detaille, Edouard, Paris.**
2911. Flag of Truce.
Lent by Mr. E. Burgess Warren, Philadelphia.
- Diaz de la Peña, Narcisse-Virgile 1808-1876, France.**
2912. La Danse des Almées.
Lent by Mr. John G. Johnson, Philadelphia.
2913. The Descent of the Bohemians.
Lent by Mrs. S. D. Warren, Boston.
2914. Turkish Women.
Lent by Mr. D. M. Ferry, Detroit.
- Dupre, Jules, 1812-1889, France.**
2915. The Pool.
Lent by Mr. E. Burgess Warren, Philadelphia.
2916. The Open Sea.
Lent by Mr. William H. Fuller, New York.
2917. At Sea.
Lent by Mr. Charles T. Yerkes, Chicago.
- Fantin-Latour, Henri, Paris.**
2918. Vision of Tannhäuser.
Lent by Mr. J. H. Wade, Cleveland.
- Fortuny, Mariano, 1838-1874, Spain.**
2919. Beach at Portici, Italy.
Lent by Mrs. Prescott Hall Butler, New York.
- Francais, Francois-Louis, Paris.**
2920. Sun Breaking Through the Mist.
Lent by Mr. William Buchanan, New York.
- Fromentin, Eugène, 1820-1876, France.**
2921. The Falconer.
Lent by Mr. D. W. Powers, Rochester.
2922. Women of Sahara.
Lent by Mrs. Henry Field, Chicago.
- Gericault, J. L. A. Theodore, 1791-1824, France.**
2923. Study of a Cuirassier.
Lent by the Museum of Fine Arts, Boston.
- Gerome, Jean-Leon, Paris.**
2924. L'Eminence Grise.
Lent by Mrs. S. D. Warren, Boston.
2925. Le Montreur de Serpents.
Lent by Mr. Alfred Corning Clark, New York.
- Greuze, Jean-Baptiste, 1725-1805, France.**
2926. The Pouting Child.
Lent by Mr. Martin A. Ryerson, Chicago.
- Helleu, Paris.**
2927. Interior of Saint Denis Cathedral, showing effect of light through Stained Glass Windows.
Lent by Mrs. John L. Gardner, Boston.
- Ingres, Jean-Auguste-Dominique, 1780-1867, France.**
2928. The Cardinal Bibbiena Introducing Raphael and his Niece.
Lent by Mrs. S. D. Warren, Boston.
- Isabey, Eugène, 1804-1886, France.**
2929. A Fête at the Hotel de Rambouillet.
Lent by Mr. Samuel M. Nickerson, Chicago.
- Israels, Josef, Amsterdam.**
2930. A Frugal Meal.
Lent by Mr. Charles T. Yerkes, Chicago.
- Knaus, Ludwig, Berlin.**
2931. A Country Festival.
Lent by Mr. Charles T. Yerkes, Chicago.
2932. The Potato Harvest.
Lent by Mrs. Henry Field, Chicago.

DEPARTMENT K.—FINE ARTS.

- Lefebvre, Jules-Joseph, Paris.**
 2933. La Cigale.
 Lent by the St. Louis Museum of Fine Arts.
- Leys, Hendrik, Baron, 1815-1896, Belgium.**
 2934. The Book Stall.
 Lent by Mr. Charles T. Yerkes, Chicago.
- Lhermitte, Léon-Auguste, Paris.**
 2935. Washerwomen on the Banks of the Marne.
 Lent by Mr. E. Burgess Warren, Philadelphia.
- Manet, Edouard, 1833-1883, France.**
 2936. Marine.
 Lent by Mr. Frank Thomson, Philadelphia.
- Dead Toreador.**
 2937. Lent by Mr. James S. Inglis, New York.
- Marine.**
 2938. Lent by Mr. Alexander J. Cassatt, Philadelphia.
- Maris, Jacques, The Hague.**
 2939. Canal in Holland.
 Lent by Mr. John G. Johnson, Philadelphia.
- Mauve, Antonin, 1838-1888, Holland.**
 2940. The Flock.
 Lent by Mr. Joseph Jefferson, New York.
- Meissonier, Jean-Louis-Ernest, 1813-1891, France.**
 2941. View near Poissy.
 Lent by Mr. John G. Johnson, Philadelphia.
- Reconnaissance.**
 2942. Lent by Mr. Charles T. Yerkes, Chicago.
- Michel, Georges, 1733-1843, France.**
 2943. The Horseman.
 Lent by Mr. William H. Fuller, New York.
- Plain of Montmartre, Paris.**
 2944. Lent by Mr. William H. Fuller, New York.
- Michetti, Francesco Paolo, Naples.**
 2945. Springtime and Love.
 Lent by Mr. Albert A. Munger, Chicago.
- Millet, Jean Francois, 1814-1875, France.**
 2946. The Sheep Shearers.
 Lent by Mr. Peter C. Brooks, Boston.
- After the Bath.**
 2947. Lent by Mr. Alfred Corning Clark, New York.
- The Gleaners.**
 2948. Lent by Mr. Alfred Corning Clark, New York.
- The Haymaker.**
 2949. Lent by Mrs. Alfred Corning Clark, New York.
- The Pig Killers.**
 2950. Lent by Mr. Charles T. Yerkes, Chicago.
- The Man with the Hoe.**
 2951. Lent by Mr. William H. Crocker, San Francisco.
- Shepherdess.**
 2952. Lent by the Museum of Fine Arts, Boston.
- Peasants Carrying a New-born Calf.**
 2953. Lent by Mrs. Henry Field, Chicago.
- Monet, Claude, Paris.**
 2954. Morning Fog.
 Lent by Mr. Albert Spencer, New York.
- Dawn on the Coast of the North Sea.**
 2955. Lent by Mr. Albert Spencer, New York.
- Harbor of Havre.**
 2956. Lent by Mr. Frank Thomson, Philadelphia.
- Snow Scene.**
 2957. Lent by Mr. Alexander J. Cassatt, Philadelphia.
- Monticelli, Adolphe, 1824-1886, France.**
 2958. Nymphs Bathing.
 Lent by Dr. Henry C. Angell, Boston.
- Morland, George, 1763-1804, England.**
 2959. Contentment.
 Lent by Mr. R. Hall McCormick, Chicago.
- Neuville, Alphonse-Marie de, 1836-1887, France.**
 2960. The Spy.
 Lent by Collis P. Huntington, New York.
- Pissaro, Camille, Paris.**
 2961. The Village.
 Lent by Mr. Potter Palmer, Chicago.
- Summer.**
 2962. Lent by Mr. Frank Thomson, Philadelphia.
- Spring.**
 2963. Lent by Mr. Alexander J. Cassatt, Philadelphia.
- Puvis de Chavannes, Pierre, Paris.**
 2964. Summer.
 Lent by Mr. J. H. Wade, Cleveland.
- Autumn.**
 2965. Lent by Mr. Martin A. Ryerson, Chicago.
- Raffaelli, Jean-Francois, Paris.**
 2966. Absinthe Drinkers.
 Lent by Mr. Potter Palmer, Chicago.
- On the Coast.**
 2967. Lent by Mr. Potter Palmer, Chicago.
- Place de la Trinite, Paris.**
 2968. Lent by Mr. Potter Palmer, Chicago.
- Regnault, Henri, 1848-1871, France.**
 2969. In the Pyrenees.
 Lent by Mr. John G. Johnson, Philadelphia.
- Renoir, A., Paris.**
 2970. In the Garden.
 Lent by Mr. Albert Spencer, New York.
- Rousseau, Theodore, 1812-1867, France.**
 2971. Landscape in Berry, France.
 Lent by Mr. Charles T. Yerkes, Chicago.
- Near Barbizon.**
 2972. Lent by Dr. Henry C. Angell, Boston.

UNITED STATES.

- | | |
|--|---|
| <p>2973. View on the Seine.
Lent from the collection of the late Mr. Jay Gould, New York.</p> <p>2974. A Lone Tree—Autumn.
Lent by Mr. Frank Hill Smith, New York.
Sisley, Alfred, Paris.</p> <p>2975. Village Street, Moret, France.
Lent by Mr. Potter Palmer, Chicago.
Swan, John M., London.</p> <p>2976. The Approaching Combat.
Lent by Mr. John G. Johnson, Philadelphia.</p> <p>2977. Two Tigers.
Lent by Mr. John G. Johnson, Philadelphia.</p> <p>2978. Lioness and Cubs.
Lent by Mr. William L. Elkins, Philadelphia.
Tassaert, Nicolas-Francois-Octave, 1800-1874, France.</p> <p>2979. Saint Hilarion.
Lent by Mr. Potter Palmer, Chicago.
Thompson, Harry, Paris.</p> <p>2980. The Shepherdess.
Lent by the St. Louis Museum of Fine Arts.</p> | <p>Troyon, Constant, 1810-1865, France.</p> <p>2981. A Drove of Cattle and Sheep.
Lent by Mr. Cornelius Vanderbilt, New York.</p> <p>2982. White Cow and Sheep.
Lent by Mr. Julius Stroh, Detroit.</p> <p>2983. Going Home. (Lent by Mrs. Henry Field, Chicago.)</p> <p>2984. The Surf.
Lent by Mr. Gari Melchers.
Uhde, Fritz von, Munich.</p> <p>2985. A Sewing Bee in Holland.
Lent by Mr. L. Crist Delmonico, New York.</p> <p>Van Beers, Jan, Brussels.</p> <p>2986. "You Are Welcome."
Lent by Mr. Charles T. Yerkes, Chicago.</p> <p>Watts, George Frederick, London.</p> <p>2987. Portrait of Joachim—Candle-light.
Lent by Mr. Charles L. Hutchinson, Chicago.</p> <p>Zorn, Anders L., Stockholm.</p> <p>2988. Bottling Works.
Lent by Mr. Potter Palmer, Chicago.</p> <p>Rodin, Auguste, Paris.</p> <p>2989. Cupid and Psyche. (Marble Group.)</p> <p>2990. The Sphinx. (Marble.)</p> <p>2991. Andromeda. (Marble.)</p> |
|--|---|



ALGERIA.

GROUP 139.**Sculpture.**

- Vague, Joseph, Constantine.**
1. Marble Statues and Groups. 820

GROUP 140.**Paintings in Oil.**

- Carrus, Jeune A., Mustapha.**
2. Nine Pictures.
Marzocchi, Numa, Alger.
3. One Picture.
Reymann, Joseph, Village d'Tsly.
4. Three Pictures.

Sintes, Joseph, Alger.

5. Five Pictures.

GROUP 142.

Paintings on Ivory, on Enamel, on Metal, on Porcelain or other Wares; Fresco Painting on Walls.

Vague, Joseph, Constantine.

6. Drawings, etc.

GROUP 144.

Chalk, Charcoal, Pastel and other Drawings.

Vague, Joseph, Constantine.

7. Paintings on Faience—Panels.

AUSTRIA.

GROUP 139.**Sculpture.**

- Breneck, Anton, Vienna.**
1. Bronze relief, Richard Wagner. 821
Charlemont, Theodor, Vienna.
2. Boy Beggar. 822
Jarl, Otto, Vienna.
3. The Creeping Tiger. 822
Kaan, Arthur, Vienna.
4. Old Man, Terra Cotta. 820
Myslbeck, Josef V., Prague.
5. "Graf Franz Thun-Hohenstein." 822
Schwarz, Stefan, Vienna.
6. Fauns with Geese.
7. Heracles in the Nessus Garment.
8. Boy with Snake.
9. Mozart. 822
Tilgner, Victor, Vienna.
10. Zinc bust, His Majesty the Emperor of Austria.
11. Bronze bust, Jos. R. v. Fuehrich. 822
Weigl, Robert, Vienna.
12. Beethoven.
13. Mozart.
14. Old Vienna Waltzer.

GROUP 140.**Paintings in Oil.**

- Angeli, Heinrich von, Vienna.**
15. Portrait of Stanley.
16. Portrait of Architect Schmidt.
Ameseder, Eduard, Vienna.
17. Narenta River at Mostar.
18. Evening.
Bacher, Rudolf, Vienna.
19. Mater Dolorosa.
20. Ave Maria.
Bernatzik, Wilhelm, Vienna.
21. The Vision of Saint Bernard.
Blaas, Eugen von, Venice.
22. The Good Brother.
Blaas, Julius von, Vienna.
23. Horse Market in Hungary.
Blau, Tina, Munich.
24. Fallen Giant.
Breidwiser, Theodor, Vienna.
25. Short Rest.
Brocik, Vaclav, Paris.
26. The Historical "Fenstersturz" at Prague.
27. The First Communion of the Hussites.

Burnauid, Eugene, Veytaux-Chillon.

28. In the High Pastures.

Canon, Hans, Vienna.

29. The Master of the Hounds.

Charlemont, Hugo, Vienna.

30. Still Life.

31. In the Kitchen.

Defregger, Franz von, Munich.

32. Children Playing with a Dog.

33. "God Bless You!"

Deutsch, Ludwig, Paris.

34. The Holy Gate in Cairo.

35. The Eunuchs.

Ditscheiner, Adolph, Munich.

36. Spring.

Engelhart, Josef, Vienna.

37. The Curpark at Baden, near Vienna

Ernst, Rudolph, Paris.

38. Tomb of Sultan Selim.

Fischer, Ludwige, Vienna.

39. Himalaya Scenery.

Friedlaender, Camilla, Vienna.

40. Still Life.

Gisela, Josef, Vienna.

41. Adventures in the Lottery.

42. What Gladdens One Saddens the Other

43. The Seamstresses.

44. The Visit to the Laundry.

Gloss, Ludwig, Moedling.

45. The Antiquarian.

Goltz, Alexander D., Vienna.

46. Christ and the Women.

47. Flower Girl at Constantinople.

Hamza, Johann, Vienna.

48. The Dice-throwers.

Hasch, Carl, Vienna.

49. Old Sawmill in the Eschern Valley.

Hirschl, Adolf, Vienna.

50. Prometheus.

51. Wedding Procession.

Hoermann, Theo. v., Znaim.

52. Girls Hunting Mushrooms.

Hoffmann, Josef, Znaim.

53. From Bygone Days.

Hradecky, Vaclav, Prague.

54. Peasants' Rebellion in Bohemia.

Huber, Rudolph, Vienna.

55. George Washington.

56. Fighting Cows.

Jettel, Eugen, Paris.

57. Ramsau Scenery.

DEPARTMENT K.—FINE ARTS.

58. Shore of the Seine.
59. Dutch Landscape.
Karger, Karl, Vienna.
60. The Graben in Vienna.
Katzer, Anton, Vienna.
61. The Indiscreet Friend.
Kaufmann, Isidor, Vienna.
62. "Age is not Proof against Folly."
Knuepfer, Benes, Rome.
63. The Eternal Siren.
64. Triton's Fight.
Kuenel, Josef, Vienna.
65. A Dude in the Country.
Kurzbauer, Edward, Rome.
66. The Fortune Teller.
Lang-Laris, Hermine, Vienna.
67. Still Life.
Lebiedzki, Eduard, Vienna.
68. The Kiss.
Lichtenfels, Ed. v., Vienna.
69. Gulf of Quarnero.
Makart, Hans, Vienna.
The Five Senses.
70. Smelling.
71. Tasting.
72. Sight.
73. Feeling.
74. Hearing.
75. The Falconer.
Moll, Karl, Vienna.
76. The Roman Ruins in Schoenbrunn.
Mueller, Anton, Vienna.
77. The Bird's Friend.
Mueller, Leopold C., Vienna.
78. Market Place in Cairo.
Nadler, Robert, Budapest.
79. The Duet.
Nowak, Ernst, Vienna.
80. Tribute to the Monastery.
Obermüllner, Adolf, Vienna.
81. Mountain Brook Torrent.
Payer, Julius von, Salzburg.
82. Never Retreat.
Pausinger, Franz von, Salzburg.
83. Autumn Evening.
84. Late Autumn.
Pettenkofen, Aug. von, Salzburg.
85. Gipsy at the Hearth.
86. Market.
87. Farmhouse.
88. Gipsy Hut in the Forest.
Probst, Carl, Salzburg.
89. The Consultation.
Reichert, Carl, Salzburg.
90. After the Hunt.
Ribarz, Rudolf, Salzburg.
91. Decorations for a Dining-room.
Roehrer, Lina, Munich.
92. At the Game Dealer's.
Ruben, Franz, Vienna.
93. Autumn Day on the Lido.
94. From Romantic Times.
Rumpler, Franz, Vienna.
95. Girl From Bohemia.
Russ, Robert, Vienna.
96. Early Spring.
Schmid, Julius, Vienna.
97. "Let the Little Ones Come to Me."
Schmid, Mathias, Munich.
98. The Edelweiss Plucker.
Schindler, Jac. E., Vienna.
99. Saw-mill in Oberweissenbach.
100. View of Ragusa.
101. Peace.

- Schroedl, Anton, Vienna.**
102. Flock of Sheep in Hungary.
Schwaiger, Hans, Prague.
103. Peasant in Bohemia.
104. Peasant Woman in Bohemia.
Seligmann, Adal, Vienna.
105. The Holy Family.
106. Prof. Billroth's Clinic.
Simm, Franz, Munich.
107. Duet.
108. Indian Summer.
Stein, Alwyn v., Vienna.
109. Un Soldo, Signore.
Strecker, Emil, Vienna.
110. Before the Holidays.
Temple, Hans, Vienna.
111. Portrait of William Unger.
Thoren, Otto v., Paris.
112. A Wolf!
Wortheimer, Gustav, Paris.
113. The Vision.
Wiesinger, Florian O., Vienna.
114. Morning at the Shore.
115. Rural Breakfast.
116. Washerwoman in the Mountain.
Zetsche, Edward, Vienna.
117. View in Weissenkirchen.
Zewy, Carl, Vienna.
118. Home Again.

GROUP 141.

Paintings in Water Colors.

- Alt, Rudolph, Vienna.**
119. Fountain at Trient.
120. Interior of Saint Mark's, at Venice.
121. Belvedere at Prague.
122. The Old Ducal Castle at Bruck a-M.
123. Interior of the Presbytery of the Saint
Stephen Church at Vienna.
124. Portico in the Wallenstein palace at
Prague.
125. Belvedere at Vienna.
126. Castle Taufers in Tyrol.
127. Church at Innsbruck.
Fischer, Ludwig E., Vienna.
128. The Chunsun Temple at Karnak.
129. The Grand Temple at Karnak.
130. The Bay of Cattaro.
Hoffmann, Josef, Znaim.
131. Payerbach.
**Muench-Bellinghausen, Constanze,
Pola.**
132. Chestnut Blossoms.
133. Roses.
Tomec, Heinrich, Vienna.
134. Salzkammergut.
135. Church at St. Wolfgang.
Zetsche, Eduard, Vienna.
136. Town-gate at Sulzfeld a-M.
137. Tower at Sulzfeld a-M.

GROUP 142.

Paintings on Ivory, on Enamel, on Metal,
on Porcelain or other Wares; Fresco
Painting on Walls.

- Jasper, Victor, Vienna.**
138. The Holy Trinity (after Duerer).
Michelek, Ludwig, Vienna.
139. Josef Haydn.
140. Ludwig von Beethoven.
141. Portrait of His Majesty the Emperor
of Austria.

BELGIUM.

GROUP 139.

Sculpture.

- Braecke, Pierre, Brussels.**
 1. Deserted. (Statuette, bronze.)
Charlier, Guillaume, Brussels.
 2. Girl. (Bust, marble.)
 3. Lina. (Bust, marble.)
 4. Turkey. (Bronze.)
DeKeyser, Jean Baptiste, Brussels.
 5. St. Cecilia, Singing. (Marble bust.)
De Mathelin, Maurice, Liège.
 6. Woman Collier. (Bronze statuette.)
 (Cire perdue.)
Des Enfants, Albert, Brussels.
 7. After the Walk. (Statuette, marble.)
 8. Manon Lescaut. (Bust, marble.)
 9. La Nique. (Statuette, bronze.)
De Tombay, Alphonse, Brussels.
 10. Knight of the Middle Ages. (Bronze.)
 11. Goose Girl. (Bronze.)
 12. Napolitan Improvisator. (Bronze.)
De Vigne, Paul, Brussels.
 13. Poverella. (Statue, marble.)
 14. Domenica. (Statue, bronze.)
 15. Amertume. (Bust, marble.)
 16. Pysche. (Bust, marble.)
 17. Roman Woman. (Bust, bronze.)
Hambresin, Albert, Brussels.
 18. An Edict, 15th century. (Statuette, bronze.)
 19. Curfew, 15th century. (Statuette, bronze.)
 20. Crossbowman, 15th century. (Statuette, bronze.)
 21. A Proclamation. 15th century. (Statuette, bronze.)
Herain, Jean, Brussels.
 22. A Captive. (Marble.)
 23. Going to the Fields. (Bronze.)
Joris, Francois, Antwerp.
 24. The Ship's Boy. (Marble bust.)
 25. The Cherries. (Marble.)
 26. Fantasy. (Bronze, bust.)
Le Roy, Hipp. Ghent and Rome.
 27. Course Folatre. (Bronze.)
 28. Child Life. (Marble.)
 29. Quand la bise fut venue. (Bronze, Cire perdue.)
 30. Polar Bear. (Bronze.)
Martens, Jean Baptiste, Paris.
 31. Girl and Turtle Doves. (Marble.)
 32. A Spinner. (Bust with arms, marble.)
Samuel, Charles, Brussels.
 33. Primavera. (Bust, bronze.)
 34. Prelude. (Statuette, bronze.)
Van Beurden, Alphonse, Antwerp.
 35. Forced Bath. (Group. Bronze, Cire perdue.)
 36. Quinten Matsys. (Bust, marble.)
 37. Young Singer. (Bust, marble.)
Van der Straeten, Georges, Paris.
 38. Portrait of Monsieur Worth. (Bust, marble.)
 39. Spring. (Bronze.) } Belong to Mr. C.
 40. Winter. (Bronze.) } T. Yerkes of
 41. Idyl. (Bronze.) } Chicago.

Weyns, Jules, Antwerp.

42. Sweet Slumber. (Statue, marble.)
 43. The Bird Catcher. (Bust, marble.)
Willems, Joseph, Malines.
 44. A Child. (Bronze bust.)
 45. L'Epervier. (Group, bronze.)
 46. Clown. (Statuette, bronze.)

GROUP 140.

Paintings in Oil.

- Abry, Leon, Antwerp.**
 47. The Sparrow of Lesbja.
Anten, Djef, Hasselt.
 48. December Morning.
Arden, Henry, Brussels.
 49. After the Storm. Marine.
Asselbergs, Alphonse, Uccle near Brussels.
 50. Toward Evening on a Fine Winter Day in Campine (Belgium).
 51. A Ravine in Winter (Ardenne Mountains).
Baron, Theodore, Namur.
 52. Autumn Leaves (Afternoon).
 53. Autumn Day in the Ardennes.
Bayart, Paul, Brussels.
 54. In Holland.
Beernaert, Euphrosine, Brussels.
 55. Entrance of the Convent.
 56. Autumn Evening. (Woman's Building.)
Bellis, Hubert, Brussels.
 57. Strawberries.
 58. Game.
Binje, Franz, Brussels.
 59. Rocks of the Fond d'Arguet, Namur.
Boudry, Alois, Antwerp.
 60. In Sunday Attire.
 61. Interior (Afternoon).
Bource, Henri, Antwerp.
 62. The Cherries.
Bourotte, Auguste, Brussels.
 63. Pyramus and Thisbe.
 64. In the Fields.
Bouvier, A., Brussels.
 65. Marine.
Broereman, Eugène, Brussels.
 66. In the Bruyère.
 67. Oliva.
Brunin, Leon, Antwerp.
 68. A Visit to the Studio of Benvenuto Cellini.
 69. Declaration of Love.
Cap, Constant, Antwerp.
 70. Jeu de la Comète. Old Salon, Louis XV, of the Kums Museum, Antwerp.
Carabain, Jacques, Brussels.
 71. La Piazza Guilio Cesare, at Rimini, Italy.
 72. View of Cogolet on the Mediterranean, said to be the birthplace of Columbus.
Carpentier, Evariste, La Hulpe.
 73. Summer Sun.
 74. Convalescence.

DEPARTMENT K.—FINE ARTS.

- Claus, Emile, Astene.
 75. Cock Fight in Flanders.
 Coenraets, Charles, Brussels.
 76. Woodturners' Shop (Brussels type).
 77. Interior at Auderghem, near Brussels.
 Cogen, Felix, Brussels.
 78. The Shipwrecked Holland Coast.
 Collart, Mme. Marie.
 79. The Springs of Schavues.
 80. A Farm. (Woman's Building.)
 Coosemans, Joseph-Theodore, Brussels.
 81. Wooded Path in the Campine.
 Courtens, Franz, Brussels.
 82. The Departure of the Herd.
 83. Road Through the Dunes.
 Crabeels, Flor, Antwerp.
 84. Flemish Kermesse.
 85. The Return to the Farm.
 Dael, Auguste, Ghent.
 86. Jealousy.
 87. While the Husband is Away.
 D'Anethan, Alix, Paris.
 88. The Holy Women. (Woman's Building.)
 De Bats, Auguste Marie, Bornhem.
 89. In Zeeland.
 De Beul, Jean-Henri, Brussels.
 90. Herder Assembling his Flock.
 De Beul, Franz, Brussels.
 91. Return to the Stable, in the Campine.
 De Bièvre, Marie, Brussels.
 92. Peaches.
 93. Accessories (the Porcelains). (Woman's building.)
 De Bourtzoff, Nathalie, Brussels.
 94. Hors de Combat.
 De Bourtzoff, Sophie, Brussels.
 95. The Orphan.
 De Bruyn, Frans, Antwerp.
 96. The Wait (Toward Evening).
 De Hem, Louise, Ypres.
 97. The Sexton. (Belongs to the Museum of Ypres.)
 98. Return of a Procession in Flanders. (Woman's Building.)
 De Heuvel, Theodore-Bernard, Brussels.
 99. A Schoolmaster.
 De Keghel, Desire, Ghent.
 100. Flowers and Accessories of Music.
 101. Souvenir of Prince Baudouin of Belgium.
 De Keyser, Nicaise (deceased).
 102. The Holy Week in Seville.
 Dell'Acqua, Cesare, Brussels.
 103. State Prisoner in the Fortress of Graciosa.
 De Naeyer, Charles, Brussels.
 104. Still Life.
 105. Still Life. (Cheeses.)
 Den Duyts, Gustave, Brussels.
 106. Church of Wondelgheim. Winter Scene.
 107. Portrait of M. E. D. V.
 De Rickx, Louis, Antwerp.
 108. The Storm.
 109. The Harvest.
 De Schampheler, Edmond, Brussels.
 110. Autumn Morning. Genck, Limbourg.
 111. Holland Prairies.
 De Smeth, Henri, Borgerhout.
 112. The Smoker.
 De Vigne, Emma, Ghent.
 113. Flowers.
 De Vriendt, Albrecht, Antwerp.
 114. Charles VI and Odette.
 De Vriendt, Juliaan, Brussels.
 115. Souvenir of Cairo.
 Dielman, Marguerite, Brussels.
 116. Fruit.
 Dierickx, Omer, Brussels.
 117. Reunion of Friends.
 118. Dreary Waking.
 Dillens, Albrecht, Brussels.
 119. Shrimp Gatherers.
 Farasyn, Edgard, Antwerp.
 120. Embarkment of Emigrants at Antwerp.
 121. L'Ecole Buissonnière.
 Fichet, Georges-Francois-Paul, Brussels.
 122. Bather.
 Fischer, Alice, Brussels.
 123. Glaieuls.
 Frank, Lucien, Tervueren.
 124. October.
 Gailliard, Francois, Brussels.
 125. La Porte de Hal in Brussels.
 Gerard, Theodore, Brussels.
 126. Bad Reception.
 Gevers, Hélène, Antwerp.
 127. Arab Merchant.
 128. A Future Poet.
 Godding, Emile, Antwerp.
 129. One Florin Five Cents, Four Deniers.
 Goemans, Gustave-Hubert, Ghent.
 130. Summer.
 131. Sunshine on the Avenue.
 Guffens, Godfroid, Brussels.
 132. Girl, Dressing.
 133. Girl, Dressing.
 Guiette, Jules, Antwerp.
 134. Evening.
 Halle, Oscar, Antwerp.
 135. The Last Day of Autumn.
 136. Reading of the Bible at the Old Men's Hospice.
 Hagemans, Maurice, Brussels.
 137. Snow in the Forest of Soigne.
 Heger, Louise, Brussels.
 138. Banks of the Ourthe River.
 Herbo, Leon, Brussels.
 139. Souvenir of Italy.
 Hoeterickx, Emile, Brussels.
 140. Arrival of the-Mailboat at Dover.
 Hoorickx, H. G. Ernest, Brussels.
 141. Winter Twilight.
 Horebant, Joseph, Ghent.
 142. Young Woman.
 Huysmans, Jean Baptiste, Hove.
 143. Visit of the Merchant (Algeria).
 Jacobs, Adolphe, Brussels.
 144. Stable at Boitsfort.
 Jacobs, Louis, Brussels.
 145. The Scheldt with Floating Ice.
 146. Evening on the Lower Scheldt.
 Kegeljan, Franz, Brussels.
 147. Flemish Farm.
 148. Shores of the Lake of Neuchatel.
 Kokken, Henry, Antwerp.
 149. A Hazard.
 150. Gallantry.
 Lamorinière, Francois, Antwerp.
 151. Avenue of Oaks, near Antwerp.
 152. Snow Effect, near Antwerp.

BELGIUM.

- Laumans, Fanny, Brussels.**
 153. While Awaiting the Artist. (Woman's Building.)
Leempoels, Jef, Brussels.
 154. The Amateurs.
 155. A Vocation in Suspense.
Lefebvre, Charles, Brussels.
 156. Arab Encampment in Morocco.
Le Mayeur, Adrien, Boitsfort.
 157. The Storm.
 158. Setting Sun at Sea.
Le Roy, Hipp., Ghent and Rome.
 159. Dream of Happiness.
 160. Winter in a Flemish Town.
Looymans, Romain, Antwerp.
 161. Flemish Farmyard.
Lybaert, Theophile, Ghent.
 162. The Mother of Sorrows.
 163. Melancholy.
Maeterlinck, Louis, Ghent.
 164. Peace.
Mayne, Jean, Brussels.
 165. On the Coast.
 166. Les Va-nu-pieds.
Meunier, Georgette.
 167. The Mandolin.
 168. Souvenirs of a Bride. (Woman's Building.)
Meyers, Isidore, Brussels.
 169. Briele Poort, Ypres.
 170. Banks of the Scheldt, November.
Michel, Gustave, Ghent.
 171. The Novice.
Montigny, Jules Leon, Tervuer
 172. The Return of the Flock, October.en.
Musin, Auguste, Brussels.
 173. Entrepot Royal and Bassin du Commerce at Brussels.
 174. Ostend Fishermen Caught by a Squall in the North Sea.
Namur, Francois, Liege.
 175. Pauvrettes.
Nys, Carl, Antwerp.
 176. Chess Players.
Ooms, Karel, Antwerp.
 177. Cupid in Chase. (Hors concours.)
Petit, Corneille, Brussels.
 178. Happy Grandmother.
Plasky, Eugene J. B., Anderghem.
 179. Chestnut Alley in Overyshe.(Brabaut)
Plumot, Andre, Antwerp.
 180. The Dangerous Bridge.
 181. Leaving the Stable.
Portaels, Jean, Brussels.
 182. Moroccan Group.
Proost, Frans, Antwerp.
 183. In First Class.
Quitton, Edouard, Antwerp.
 184. Still Life.
Ransy, Putzeys, Felicie, Liege.
 185. Immortelles.
 186. Primroses and Oranges. (Woman's Building.)
Richir, Herman, Brussels.
 187. Fantasy.
Robie, Jean, Brussels.
 188. Bunch of Roses.
Ronner, Alice, Brussels.
 189. The Heron.
Rosier, Jean Guillaume, Antwerp.
 190. Portrait of Mme. R.
 191. At My Friend Dupon's.
Rosseels, Jacques, Termonde.
 192. In the Campine (Morning).
 193. After the Rain (Campine).
Rosymann, Augusta, Ghent and Paris.
 194. Portrait of Mlle. D.
Rul, Henry, Antwerp.
 195. Winter Evening.
Rullens, Jules, Brussels.
 196. The Study.
Seghers, Franz, Brussels.
 197. Liliun Harris.
Simons, J. Frans, Antwerp.
 198. Amour et Patrie.
Slingeneyer, Ernest, Brussels.
 199. Last Days of Pompeii.
 200. Episode of an Inundation, Dordrecht.
Stroobant, Francois, Brussels.
 201. The Old Canal of the Rosary in Bruges.
 202. The Pont Saint Jean and the Belfry in Bruges.
Toefaert, Albert, Ghent.
 203. Environs of Ghent (End of October).
 204. The Ghent Butchers. Old Flemish Team.
Triest-Van Mulders, Camille, Brussels.
 205. Carnations.
 206. Geraniums. (Woman's Building.)
Tschaggeny, Charles, Brussels.
 207. Laborer in Repose.
 208. Horse Fair at Tongres, Belgium.
Tytgadt, Louis, Ghent.
 209. The Embroidery Lesson at the Beguinage, Ghent.
Valckenaere, Leon, Brussels.
 210. The Port of Bergen-op-Zoom.
Vanaise, Gustave, Brussels.
 211. Portrait of the Congo explorer, Jérôme Becker, of Antwerp.
 212. Melancholy.
Van Beers, Jean, Paris.
 213. A panel comprising:
 1. Mrs. Brown Potter as the Lady of Lyons.
 2. Miss Ada Rehan, as Lady Teazle.
 3. Portrait of Henri Rochefort.
 4. Careless.
 5. Portrait.
 6. Portrait.
 7. Flirtation.
 8. "Reviens."
 214. Summer Evening.
Van Caillie, Florimond, Antwerp.
 215. Prairie in Flanders.
 216. Snow Effect (Knocke, Belgium).
Van Damme, Frans, Brussels.
 217. In the Allée Verte, Brussels.
Van Damme-Sylva, Emile, Brussels.
 218. Nightfall.
Van den Bos, Georges, Paris and Ghent.
 219. Etude en Plein Air.
 220. Gage of Love.
Van den Eycken, Charles, Brussels.
 221. Who is There?
Van der Hecht, Henri, Brussels.
 222. Across Brussels.
Van der Meulen, Edmond, Brussels.
 223. Astonishment.
 224. Hunting in the Marsh.
Van der Ouderaa, Pierre-Jean, Antwerp.
 225. The Galleries of the "Juweelpand" (Convent of the Jewels) during the

DEPARTMENT K.—FINE ARTS.

- Free Fair of Antwerp. First half of sixteenth century.
Van Geert, Flora, Antwerp.
 226. Chrysanthemums.
 227. Mimosas.
Van Hove, Edmond, Bruges.
 228. The Virgin and the Infant Jesus.
Van Kuyck, Frans, Antwerp.
 229. The Potato Gathering.
Van Leemputten, Corneille, Brussels.
 230. The Return of the Herd.
 231. End of Autumn in the Campine.
Van Leemputteen, Frans, Antwerp.
 232. The Return.
Van Luppen, Frans, Brussels.
 233. Fog in the Woods. (End of November.
Van Luppen, Prosper, Antwerp.)
 234. A Last Effort.
 235. Un Amateur d'Antiquites.
Van Overbeke, Edouard, Brussels.
 236. Autumn.
Van Seben, Henri, Brussels.
 237. Should it be He!
 238. Village in Holland (Winter).
Van Severdonck, Joseph, Brussels.
 239. Le Coup de Collier.
Van Snick, Josef, Nieukerken.
 240. L'Hospice.
 241. Laceworkers.
Verhaert, Pierre Joseph, Antwerp.
 242. The Will of Christopher Columbus. (According to Lamartine.)
Verhas, Jan, Brussels.
 243. The Martyrs of the Beach.
 244. The Walk on the Dyke at Heyst-sur-Mer.
Verhas, Franz, Brussels.
 245. The Flowers.
 246. Holiday.
Verheyden, Isidore, Brussels.
 247. Shrimp Fishers.
Verstraete, Theodore, Antwerp.
 248. Orchard in Zeeland.
 249. The Dyke (Evening).
Wytzman, Juliette.
 250. Marguerites.
 251. Pœonies.

GROUP 141.

Paintings in Water Colors.

- Bamps, Paul, Hasselt.**
 252. Boulevard in Hasselt (Snowstorm).
 253. Fishing Boats (Heyst).
Claus, Emile, Astene.
 254. Confidential Messenger.
 255. Winter Days.
Coenraets, Ferdinand, Brussels.
 256. Pond near Brussels (Morning).
 257. Quay at Antwerp.
Hagemans, Maurice, Brussels.
 258. The Turkey Girl.
Moerman, A., Brussels.
 259. The Dyle at Malines.
 260. The St. Simoniens at Malines.
Stacquet, Henry, Brussels.
 261. In Ostend Port.

262. The Dyke at Heyst.
Themon, Paul, Namur.
 263. November Morning on the Meuse.
 264. Quiet Corner.
Uytterschaut, Victor, Brussels.
 265. Marine Boats Stranded at La Panne (Morning).
 266. Landscape at Harbespinne.
Verhas, Jan, Brussels.
 267. Summer Sun.
 268. Souvenir of Heyst-sur-Mer.

GROUPS 143 and 144.

Engravings and Etchings; Prints.

- Benoit, Clement, Mons.**
 269. Head of a Lion. (Original Etching.)
 270. Portrait of Mr. B.
Biot, Gustave, Antwerp.
 271. Aglae. (Engraving after Cabanel.)
 272. The Review of the School. (Engraving after Jan Verhas.)
Greuse, Louis, Mons.
 273. A frame containing engravings:
 1. Adam. (After Van Eyck.)
 2. Portraits of Children, after Duchatel.
 3. Saint John. (After Donatello.)
 4. Portrait of Mr. B.
 274. Four portraits. (Pencil drawings.)
Guiette, Jules, Antwerp.
 275. Etchings.
a Autumn Evening.
b Fishing Boat.
c The Road.
d Winter Sun
a Morning.
b March.
c Meadow.
d Harvest in Ardennes.
e Moonrise.
f Evening in the Fagnes.
Heins, Ghent.
 277. Etchings.
 278. Etchings.
Lenain, Louis, Brussels.
 279. The Rape of the Daughters of Leucippus, by the Diocures. (Engraving after Rubens.)
 280. The Idyl. (Engraving after Rubens.)
Noerman, L., Brussels.
 281. Various Pen Drawings.
Van Eeckhout, Gen'l Frederic, Ghent.
 282. Ruins of the Abbey of Villers.
 283. A Cavalry Bugler.
Van der Veken, G. P., Antwerp.
 284. *a* Engraving after Rubens.
b Engraving after Van Dyck.
c Etching after Frans Hals.
d Etching after Simon De Vos.
 285. *a* Portrait of L. Gallait. (Original etching.)
b Portrait of Peter Benoit. (Original etching.)
Art, Berthe, Brussels.
 286. Pastel (Fruit).
 287. Pastel (Grapes). (Woman's Building.)

BRAZIL.

GROUP 139.**Sculpture.****Rodolpho Bernardelli.**

1. Christ and the Adulteress.
2. St. Estevao.
3. Dr. Montenovese.
4. Dr. Benjamin Constant.
5. D. Pedro d'Alcantara.
6. Jose Bonifacio.

GROUP 140.**Paintings in Oil.****Agostinho da Motta.**

7. Fruit of Brazil.
8. Head of an Old Man.
- Almeida Jr., J. F. de, Os caipiras negaceando.**
9. The Rest of the Model.
10. The Reader.
- Antonio Parreiras.**
11. Panorama of the City of Nictheroy.
12. Evening.
13. Landscape.
- Aurelio de Figueredo.**
14. Tiradentes.
- Belmiro de Almeida.**
15. Pique.
16. Study of a Head.
- Caron H. Boaventura.**
17. Landscape.
- Castagneto, J., Baptista.**
18. St. Luria Beach, Rio de Janeiro.
19. Marine.
- Facchinetti, Nicolau.**
20. Panorama of Nictheroy.
21. Lake of Rodrigues de Freitas.
- Firmino Monteiro.**
22. Landscape.
23. Funeral of Camorim.
- Fiuza Guimaraes, Jose.**
24. Landscape.
25. Landscape.
26. Landscape.
27. Landscape.
28. Landscape.
29. Landscape.
30. Landscape.
31. Landscape.
- Henrique Bernardelli.**
32. Bandeirantes.
33. Tarantella.
34. Return of the Work.
35. Mater (Mother).
36. Portrait of Gen. Deodoro.
37. Portrait.
38. Uncle Thomas.
39. Study of a Head.
40. Wood Cutter.
41. Landscape.
42. Empire.
43. Indian.
- J. Baptista da Costa**
44. In the Orchard.
45. Marguerites.
46. Capadocio.
47. Landscape.
48. Dwelling.
49. Cabbages.

J. Zeferino da Costa.

50. The Cake of the Widow.
51. Charity.
- M. Brocos.**
52. Manioc.
53. View of St. Thezeza's Hill.
54. Cascade.
55. Orphan.
56. Bewitcher.
57. Coffee.
58. Meditation.
59. Albores.
60. Portrait.
61. Portrait.
62. Landscape.
63. Landscape.
64. Landscape.
65. Marine.
66. Marine.
67. Interior.
68. Interior.
69. Interior.
70. Portrait.
- Pedro Americo.**
71. Proclamation of the Brazilian Independence.
- Pedro Peres.**
72. The Gold Book.
- Pedro Weingartner.**
73. Derrubada (clearing land).
74. Too Late.
75. Country Ball.
76. Portrait.
77. By Oblique Lines.
- Raphael Frederico.**
78. Magnolia.
79. Flowers.
- Rodolpho Amoedo.**
80. Narration of Philetas.
81. Jesus at Capharnaum.
82. Maraba.
83. Lucia.
84. Portrait.
- Victor Meirelles.**
85. The First Mass in Brazil.
- Visconti, Eliseu d'Angelo.**
86. Landscape.
87. Landscape.
88. Landscape.
89. Landscape.
90. Landscape.
91. Landscape.
92. Landscape.
93. Landscape.

GROUP 145.**Antique and Modern Carvings; Engravings in Medallions or in Gems; Cameos, Intaglios.****A. Girardet.**

94. Portrait of Gen. B. Constant.
95. Two Ballet Girls.
96. Arrested Love.
97. Two Cupids.
98. Three Heads Symbolic of the Republic.
99. Galathea of Raphael.
100. Two Bassi-Relievi.

BRITISH GUIANA.

GROUP 140.

Paintings in Oil.

(Installed in Agricultural Building.)

Brown, Capt., Montagn, Georgetown.

1. The Fight of the Peacock and the Hornet off Georgetown.
2. The Port of Georgetown.

GROUP 141.

Paintings in Water Colors.

British Guiana Museum.

3. Twenty-nine Views of British Guiana Inland Scenery.
4. Schomburgk's Views of Guiana.

CANADA.

GROUP 140.

Paintings in Oil.

Adams, J. M. F., Toronto.

1. In the Studio.
- Ahrens, C., A. R. C. A., Toronto.
2. Cradled in the Net.
- Alexander, C., Galt, Ont.
3. Gathering Plums.
4. A Peasant Girl Drinking.
- Atkinson, W. E., Toronto.
5. Moonlight.
6. Autumn Evening, Bretagne.
- Barnsley, J. M., Montreal.
7. A Calm Evening.
- Bell, Mary A., A. R. C. A., Almonte, Ont.
8. Portrait of a Lady.
9. September Evening, Lake Huron.
10. Summer Time.
- Bell-Smith, F. M., R. C. A., Toronto.
11. Le Soir.
12. Landscape.
13. Evening, Holland.
- Brownell, F., Ottawa.
14. Lamp Light.
15. Anderson's Garden.
- Brymner, William, R. C. A., Montreal.
16. In County Cork, Ireland.
17. Lake Louise, Rocky Mountains.
18. Lake Agnes, Rocky Mountains.
19. Entr' Acte.
20. Border of the Forest Fontainebleau.
- Challener, F. S., A. R. C. A., Toronto.
21. Forty Winks on a Sunday Afternoon.
22. Marechal Niel Roses.
23. A Sweet Penitent.
24. Where the Mistletoe Grows.
25. Showery Weather.
- Cruikshank, W., A. R. C. A., Toronto.
26. Drawing the Mast.
- Cullen, M. G., Paris.
27. On the River at Gretz.
28. A Washhouse in Provence.
- Day, Forshaw, R. C. A., Kingston, Ont.
29. Musquodobit Falls, Nova Scotia.
- DeForest, H. J., St. John, N. B.
30. Valley of the Waigami River, at Evening, N. Z.
- Dignam, Mary E., Toronto.
31. In the Vineyard.

32. Still Life, Pumpkin.
- Dyonnet, E., A. R. C. A., Montreal.
33. Statuary.
- Ede, F. C. V., Sorgues, Paris.
34. Landscape with Cattle, France.
35. Landscape with Sheep, France.
36. At Sorgues, near Paris.
37. Landscape with Cattle, France.
38. Landscape near Fontainebleau.
39. Barnyard with Poultry.
- Egan, J. H., Montreal.
40. Maternity.
- Forbes, J. C., R. C. A., Toronto.
41. Chalk Cliffs, near Dover.
42. Coast of Maine.
43. The Old Home.
44. A Rocky Mountain Cañon.
- Forster, J. W. L., A. R. C. A., Toronto.
45. The Old Story.
46. Gossips.
- Franchere, J. C., Montreal.
47. Fantaisie Japonaise.
48. Still Life.
- Fraser, J. A., R. C. A., New York.
49. A Highland November Morning.
- Graham, J. L., Montreal.
50. Pastures Green.
51. Study of a Cow.
- Grier, E. W., A. R. C. A., Toronto.
52. Portrait. Miss M. Cawthra.
53. Portrait of a Physician.
- Hammond, J., A. R. C. A., St. John, N. B.
54. Herring Fishing, Bay of Fundy.
55. The Great Illicilliwaet Glacier, Selkirk.
56. The Fraser River, Yale.
- Harris, Robert, Pres. R. C. A., Montreal.
57. Portrait. Gilman Cheney, Esq.
58. Portrait. Mrs. Ross.
59. Composing his Serenade.
60. Portrait; Miss Peterson.
61. "The Homely House that Harbours Quiet Rest."
62. Harmony.
- Holden, Sarah B., Montreal.
63. Portrait.
64. A Brittany Interior.
65. A Son Gout.

CANADA.

- Hope, William, Montreal.**
 66. Table du Roi, Forest of Fontainebleau.
Houghton, Margaret, Montreal.
 67. Wishing on the Moon.
 68. Old Fishing Stage, Louisbourg.
Jacobi, O. R., R. C. A., Toronto.
 69. Landscape with Gipsies.
 70. Landscape.
 71. Landscape.
Kidd, J. M., Toronto.
 72. Roses.
Leduc, O., St. Hilaire, Que.
 73. Nature Morte, Oignons.
 74. Nature Morte, etude a la lumiere d'une chandelle.
McArthur, L. C., Winnipeg, Man.
 75. Gateway, Old Fort Garry, Winnipeg.
MacKillan, D. P., Montreal.
 76. Dismal Hollow.
Martin, T. M., R. C. A., Toronto.
 77. Evening after Winter.
 78. Ducks.
 79. Ah! There!
 80. On Guard.
Morrice, J. W., Montreal.
 81. Entrance to Dieppe.
 82. Early Morning Effect on the Conway, Wales.
Muntz, Laura A., Paris, France.
 83. A Fairy Tale.
Peel, Paul, R. C. A. (deceased).
 84. The Venetian Bather.
Pinhey, J. C., A. R. C. A., Hudson, Que.
 85. Jael.
Plimssoll, Fanny G., Montreal.
 86. An After Dinner Pipe.
Raphael, W., R. C. A., Montreal.
 87. Abandoned.
 88. A Potato Plot.
 89. The Oat Field.
Reid, G. A., R. C. A., Toronto.
 90. The Foreclosure of the Mortgage.
 91. The Visit of the Clockmaker.
 92. Lullaby.
 93. A Mountain Village.
Reid, Mary H., A. R. C. A., Toronto.
 94. Roses and Still Life.
 95. Chrysanthemums.
 96. October Sunshine.
Sandham, H., R. C. A., Boston, Mass.
 97. The founding of Maryland, March 27, 1634.
Schreiber, C. M. B., Springfield, Ont.
 98. Christobel.
Seymour, M., Montreal.
 99. Evening on the Carron, Easter Ross, Scotland.
Sherwood, W. A., A. R. C. A., Toronto.
 100. Comrades.
 101. The Negotiation.
Spurr, Gertrude E., Toronto.
 102. Boston Stump.
 103. Grand River, Elora.
Staples, O., Toronto.
 104. The Last Load.
Thompson, Ernest E., A. R. C. A., Toronto.
 105. Awaited in Vain. An Incident in the Pyrenees.
Tully, S. S., A. R. C. A., Toronto.
 106. Le Vieux Cure.
 107. Portrait. Miss L. Lefevre. (Not for sale.)
Verner, F. A., A. R. C. A., Toronto.
 108. Milking Time.
 109. Monarch of the Prairie.
Watson, H., R. C. A., Doon, Ont.
 110. Early Spring, Grand River Valley.
 111. Storm Passing the Oak Glade.
 112. Village of Kilrenny, Fife.
 113. At the Farm.
Watts, J. W. H., R. C. A., Ottawa.
 114. A Forest Pool.
 115. October.
 116. Landscape.
Wickson, Paul G., A. R. C. A., Paris, Ont.
 117. At Duty's Call.
Woodcock, P., R. C. A., New York, N. Y.
 118. The Creek.

GROUP 141.

Paintings in Water Colors.

- Barnsley, James M., Montreal.**
 119. The Life Boat.
 120. East Gloucester, Maine. (Not for sale.)
 121. Shipping. (Not for sale.)
Bell-Smith, F. M., R. C. A., Toronto.
 122. Bank of Montreal, Montreal.
 123. Feeding Pigeons, St. Paul's Churchyard, London.
 124. Evening, Hyde Park Corner.
 125. After Rain, Place de la Concorde, Paris.
 126. The Morning Milking Hour, Holland.
 127. The Thames at London Bridge.
 128. Cape Trinity. (Not for sale.)
Day, Forshaw, R. C. A., Kingston, Ont.
 129. The Hermit Range.
 130. The Glacier Torrent.
 131. Cap Rouge, Quebec.
 132. The Hermit Range from above Lake Marion.
Fraser, John A., R. C. A., New York, N. Y.
 133. A Bit of Ightan Mote House.
 134. On a Blowy Morn in June.
 135. At the Solemn Hour.
 136. In the Wild Highlands.
 137. November Twilight, Perthshire.
 138. The Haunt of the Muskrat.
 139. By the Meadow Stream.
 140. The Weird House in the Moat.
 141. On Loch Etive Side.
 142. The Sunset Flush.
 143. 'Twixt Achray and Katrine.
 144. Perce.
Fowler, Daniel, R. C. A., Emerald, Ont.
 145. Shot, But Not Got.
 146. Group of Canadian Dead Game.
 147. Peonies.
 148. Gladiolus.
 149. Group of Gladiolus.
 150. Rough Pasture.
 151. Summer Afternoon.
 152. Low Water, Bay of Quinte.
 153. Sunshine and Shade.
 154. Sand Hills, Amherst Island.
 155. Fisher Boys of Hastings, England.
 156. Dark Pool on a Dull Day.
 157. Stork.

DEPARTMENT K.—FINE ARTS.

- | | |
|--|---|
| <p>158. Duck.
Gagen, Robert F., A. R. C. A., Toronto.</p> <p>159. Rhododendrons.</p> <p>160. A Clear Morning, Frenchman's Bay, Maine.</p> <p>161. Ebb Tide, West Gouldsborough, Maine.
Griffiths, James, R. C. A., London, Ont.</p> <p>162. English Roses.</p> <p>163. Peonies.</p> <p>164. Canadian Roses.
Knowles, F. McG., A. R. C. A., Toronto.</p> <p>165. Perce Fishermen, Gulf of St. Lawrence.
MacDonnell, Harriet J., Montreal.</p> <p>166. Old Saw-mill, St. Andrews.
Manly, C. McD., A. R. C. A., Toronto.</p> <p>167. Midsummer Days.</p> <p>168. Heatherland.</p> <p>169. Land of the Peach and Vine.
Martin, E. May, Toronto.</p> <p>170. Late Twilight.
Martin, H., A. R. C. A., Toronto.</p> <p>171. Westminster.
Mathews, M., R. C. A., Bracondale, Ont.</p> <p>172. Indian Salmon Catch on the Fraser River.</p> <p>173. Lifting Mists in the Kicking Horse Cañon.</p> <p>174. Mount Begbie, at Revelstoke, B. C.</p> <p>175. The Selkirks Glacier from the C. P. R.</p> | <p>176. Spuzzum Creek on the Fraser River.
O'Brien, L. R., R. C. A., Toronto.</p> <p>177. The Great Peak of the Selkirks.</p> <p>178. Niagara.</p> <p>179. Canterbury Cathedral.</p> <p>180. Lake Memphremagog.</p> <p>181. The Grand River at Dover.</p> <p>182. Fat Lands of Ontario.</p> <p>183. Gathering Hay on Coldwater Marshes.
Phillips, Mary M., Montreal.</p> <p>184. Gloucester Harbor.
Reid, G. A., R. C. A., Toronto.</p> <p>185. Late Afternoon. (Pastel.)
Revell, W. M., A. R. C. A., Toronto.</p> <p>186. Sketch on the Canal, Brantford.</p> <p>187. Canadian Fruit.
Rolph, J. T., A. R. C. A., Toronto.</p> <p>188. Birch Trees, Coast of Maine.</p> <p>189. Sluice Gate, near West Goldsboro.
Spurr, Gertrude E., Toronto.</p> <p>190. Upland Road, Point Levi.</p> <p>191. By the Lake Shore, Mimico Creek.</p> <p>192. Rapids above the Falls.
Tully, S. S., A. R. C. A., Toronto.</p> <p>193. Anticipation. (Pastel.)</p> <p>194. Study. (Pastel.)
Verner, F. A., A. R. C. A., Toronto.</p> <p>195. St. Clair Marsh.
Way, C. J., R. C. A., Ospedaletti.</p> <p>196. Pool in the Valley of the Rhone, Switzerland.</p> |
|--|---|

COSTA RICA.

GROUP 139.

Sculpture.

Mur, F., San Jose.

1. Fac-simile of Statue of Juan Santamaria. 820

GROUP 140.

Paintings in Oil.

Valiente, Francisco, San Jose.

2. The Revery.
3. High Sea.
4. Recollections.

GROUP 143.

Engravings and Etchings; Prints.

Langenbert, G., San Jose.

5. View of San Jose.

GROUP 144.

Chalk, Charcoal, Pastel and Other Drawings.

Garcillan, Ciriaco, San Jose.

6. "The Universal Fame of the Chicago Exposition," projected monument.
Ruddy Paynter, San Jose.
7. Crayon Portrait of the President of the Republic.
Valiente, Francisco, San Jose.
8. Crayon Portrait of Senor Garay, Mexican Minister.
9. Crayon Portrait of Senorita Marcelina Gonzalez.
Pacheco, Sta. Talia, San Jose.
10. Various Crayon Works.

GROUP 145.

Antique and Modern Carvings; Engravings in Medallions or in Gems; Cameos, Intaglios.

Gonzalez, P., San Jose.

11. Fac-simile of Monument of 1856.

DENMARK.

GROUP 139.**Sculpture.**

- Bissen, V.**
 1. A Girl Making Pottery. (Marble.)
 2. A Danaide. (Marble.)
Boegebjerg, R.
 3. A Girl from Fanoe. (Bust, marble.)
Bundgaard, A. J.
 4. Will o' the Wisp. (Statue, plaster.)
 5. Laborer. (Statue, bronze.)
Dan, Johanne.
 6. A Snake Charmer. (Statue, bronze.)
Hasselries, L.
 7. Christ.
 8. Columbus.
Kroyer, P. S.
 9. The Poet, Alex. Kjeliant. (Bust, plaster.)
 10. The Poet Holger Drachmann. (Bust, plaster.)
 11. The Painter, Michal Ancher. (Bust, plaster.)
 12. The Violinist, Anton Svendsen. (Bust, plaster.)
 13. The Zoologist, J. C. Schjodte. (Bust, plaster.)
Nielsen, Anna M. C.
 14. A Calf. (Bronze.)
 15. A Calf. (Bronze.)
Pacht, Axel Fred'k.
 16. His Majesty, King Christian IX. (Statue, bronze.)
Saabye, A. N.
 17. Susanne Before the Elders.
 18. Lady Macbeth Walking in Her Sleep.
Schultze, Jul. Vilh.
 19. Vittaro. (Statuette, marble.)
Sinding, Stephan.
 20. A Captive Mother. (Plaster.)

GROUP 140.**Paintings in Oil.**

- Achn, G.**
 21. Morten.
Agersnap, Hans.
 22. Summer Day at the Pool in the Bog.
 23. Cotton Grass in Bloom.
Ancher, Anna.
 24. A Dressmaker.
 25. In a Brown Study.
Ancher, Michael.
 26. A Winter Day at the Village Shopkeepers.
 27. Fisherman Returning Home.
 28. Three Old Fellows.
Arnesen, Villa.
 29. A Gale at Sea.
Bache, Otto.
 30. The Mill Yard.
 31. Hussars on the Commons.
Ball, Otto.
 32. Sunset.
Bilkist, Joh. B.
 33. The Weather in Clearing After the Rain.

- Bissen, R.**
 34. An Old Oak Near the Shore.
Blog, Gerhard.
 35. In the Summer House.
Blache, Chr.
 36. Calm Afternoon on the Oresund.
 37. Rough Sea at a Rocky Coast (Bornholm, Denmark).
Boesen, Joh.
 38. Evening at the Seaside.
 39. Spring in a Danish Beech Forest.
Brasen, Hans.
 40. The Woman with the Eggs. (From H. C. Anderson's Story.)
Braendekilde, H. J.
 41. Worn Out.
 42. Goodbye.
Bredsdorf, Johan Ulrik.
 43. Sunshine When the Leaves are Falling.
Brandt, J. H.
 44. Breakers.
La Cour, James.
 45. View of the Sea on a Calm Spring Day.
 46. At the Seaside; Gloomy Day.
Carstensen, A. Riis.
 47. Sea Piece.
Christiansen, H.
 48. Jutlandish Bull.
 49. A Milking Place.
Christiansen, Pul S.
 50. Portrait.
Dahl, Hans.
 51. Evening Picture (Tisville Hegn, Zealand).
Dahlmann, Augusta.
 52. Flora.
 53. Chrysanthemums.
Dorph, A.
 54. A Young Girl—Study Head.
Dorph, N. V.
 55. Lawn Tennis.
Englested, M.
 56. Sacrifice of Isaac.
Fisher, Poul.
 57. Hojbroplads, Copenhagen.
Frolich, Emma.
 58. Flowers.
Frolich, L.
 59. Heracles bringing a Satyr before the Tribunal of Olympians.
 60. Le Satyr. (La Legende des Siecles, V. Hugo.)
 61. Cain and the Eye of the Lord (La Legende des Siecles, V. Hugo).
Gjodesen, Aage.
 62. View on the Kullen in Sweden; Afternoon Sun.
Gudmundsen-Holmgren.
 63. Bricklayers Playing Cards.
 64. Interior of a Poor Cottager's Home. (Walders, Norway.)
Hansen, Hans Nikolai.
 65. Portrait of the Wife of the Painter.
 66. January.
 67. The Beach at Tisville (Zealand).

DEPARTMENT K.—FINE ARTS.

- Hansen, Adolph H.**
 68. Room in the Palace Coronna in Rome.
Hansen, Peter.
 69. Group of Children.
Hansen, Joseph Th.
 70. The Study-room of Her Majesty, Queen Louise, at Fredensborg.
 71. The Council-room at the Palace of Stockholm.
Haslund, Otto.
 72. Interior of a Stable.
Heilmann, Gerhard.
 73. Spring Day After Rain.
 74. An Old Manor House.
 75. Summer Evening.
Helsted, Axel.
 76. The Judgment of Paris.
Henrichsen, Lorenz V.
 77. Evening Sun.
Holten, Sofie.
 78. Portrait of a Lady. (Half length.)
 79. Portrait of a Gentleman. (The Painter, L. A. Bing.)
 80. At the Border of the Wood.
Hou, Axel.
 81. "Master, Where Are You Going?"
Ilsted, Peter.
 82. An Invalid.
Irminger, V.
 83. In a Ward During the Night. (The Children's Hospital at Refsnaes, Zealand.)
 84. Sufferers Waiting for Christ. (St. Mark 1, 32-33.)
 85. Dogs in Copenhagen.
Jensen, Carl Milton.
 86. A Change in the Weather.
Jensen, J. Th.
 87. Winter Day in a Forest Glen.
Jensen, Karl.
 88. St. Olai Church at Elsinore.
Jespersen, Henrik.
 89. Drifting Clouds with Glimpses of Sunshine.
 90. On the Brink of a Rivulet in West Jutland; Summer Afternoon.
Jerndorff, A. A.
 91. The Deluge.
 92. The Jews in the Wilderness.
 93. Portrait of a Gentleman.
 94. Portrait of a Lady.
Johansen, Viggo.
 95. Christmas Eve.
 96. Autumn Landscape.
 97. Sunday at Fibirke Church (Denmark).
 98. Plough Land.
Kabel, Ludvig.
 99. Summer Evening in the Country (Zealand).
Kittendorf, Ad.
 100. Amagertorv in Copenhagen.
 101. In Gennayano.
Kofoed, H. C.
 102. After the Work (Brittany).
 103. Portrait.
Konstantin-Hansen, Elise.
 104. An Oat Field.
Kornerup, Valdemar.
 105. The Good Samaritan.
Krebs, Johanne.
 106. Portrait. (Study.)
Kroyer, P. S.
 107. The Road to Stenbjerg (Denmark).
 108. In the Garden.
 109. Portrait.
Kyhn, Vilhelm.
 110. Landscape.
Larsen, Knud Erik.
 111. From the Children's Home. (The children have cod liver oil.)
 112. The Border of the Woods.
Larsen, Mimi.
 113. Before the Communion. (Old Wendish Woman.)
Locher, Carl.
 114. A November Night on the North Sea.
 115. The Glacier of Oefjelds. (Iceland.)
Lubschitz, John Leopold.
 116. Evening.
Lund, C. Emil.
 117. Landscape in Jutland. Subject from Himmerland.
Lund, Soren.
 118. Tethered Horses.
Lutzhof, N. Holten.
 119. Dark Day in August.
 120. Sunshine in a Village Churchyard.
Matthiesen, Oscar.
 121. Cart Horses at the Heine, Paris.
 122. Gale at the West Coast of Jutland.
 123. Griffenfeldt as a Prisoner at Munkholm, Teaching Two Little Boys.
Mols, Niels Petersen.
 124. Rainy Weather.
 125. October Day.
Niss, Thorvald.
 126. Autumn.
Nybo, Friis.
 127. September. West Part of Southern Norway.
 128. Old Trees at Charlottenlund (Zealand).
Olsen, Alfred.
 129. A Dead Calm.
Pacht, Yilh.
 130. Potato Harvest in North Zealand.
Paulsen, Julius.
 131. The Models are Waiting.
 132. View of a Plain in Denmark.
 133. Portrait of Professor Frolich.
Pedersen, Ole.
 134. Field Laborers.
 135. Interior of a Stable.
Pedersen, Thorolf.
 136. From the Port of Elsinore.
 137. The Tempest.
Pedersen, Viggo.
 138. Isaac Seeing the Arrival of Rebecca, (Genises xxiv, 63.)
 139. The Water Mill.
 140. The Sun Setting Over the Sea.
 141. View of the Sea.
 142. Italian Landscape from Sora.
Petersen, Anna Sofie.
 143. Fishermen in Church in West Jutland.
Rasmussen, J. E. Carl.
 144. Shipwrecked Sailors on the Sea.
 145. Summer Night on the Coast of Greenland.
Rasmussen, R. C.
 146. Street at Rysensten. (Copenhagen.)
Ring, L. W.
 147. Laborers at an Aqueduct.
 148. A Drunken Man in the Village.
Rohde, Johan.
 149. Danish Landscape.

DENMARK.

- | | |
|--|--|
| <p>150. On the Banks of the Ribe Rivulet.
Seligman, Georg.
Convalescence.
151. Schlichtkrull, Johan C.
The Sound Sleepers.
153. Outside the Cottage.
154. Portrait of My Brother.
155. Change of the Weather.
Schmidt-Phiseldeck, Carl.
155½. The Large Beach in Valloe Park;
September Day.
Skovgaard, N. K.
156. The Goblins' Forest.
157. Beech Forest in the South of Sweden
on a Rainy Autumn Day.
158. Portrait.
Smidth, Hans.
159. Aaresvad Rivulet at Karup (West
Jutland).
160. Sund's Mill (West Jutland).
Therkildsen, M.
161. Frightened Horses.
Tornoe, Wenzel.
162. The Newly Married Friend Pays a
Morning Visit.
Tuxen, Lauritz.
163. Suanne in the Bath.
164. On the Coast of Piccardy, Fismen
Returning at Dusk.</p> | <p>165. Portrait of a Lady.
166. The Royal Danish Family.
Tuxen, Noline.
167. Midsummer; Growing Apple Bough.
Wandel, Elisabeth.
168. Evening Sun; A Storm is Coming on.
Wang, Albert E.
169. October Day. (Subject from the
neighborhood of Horsens, Den-
mark.)
Wegmann, Bertha.
170. Portrait of a Lady.
171. Portrait of a Lady.
172. A Physician.
173. Prospect at Jenbach (In Tyrol).
Wentorf, Carl C. F.
174. At Relsen. (Subject from Gulbran-
dsdalen, Norway.)
Winther, Fr.
175. Sorgenfri Rivulet. (Lynghy, Zeland.)
Zacho, Chr.
176. Summer Day on the Banks of the
Rivulet in Saebygaard Wood. (Jut-
land.)
Zahrtmann, Kristain.
177. Job and his Friends.
178. Procession in Civita d'Antina, Italy.</p> |
|--|--|

FRANCE.

GROUP 139.

Sculpture.

- | | |
|--|---|
| <p>Anglade, Alexandre, Paris.
1. Pro Fide. 820
Astanières, Clement, comte d', Paris.
2. Child on a Wave; More Fear than
Danger. 820
3. Blind. 821
4. Cavalryman in Campaigning Dress. 822
5. Infantry on the Frontier in Fatigue
Uniform. 822
6. Volunteer of Autun, Cavalryman in
Service Dress. 822
7. A Curious Child. 820
Aube, Jean-Paul, Paris.
8. Dante. 820
Barrias, Louis-Ernest, Paris.
9. The First Burials. 820
10. Mozart as a Child. 820
Bartholdi, Frederic-Auguste, Paris.
11. Washington and Lafayette. 822
Bartholome, Albert, Paris.
12. Little Girl Crying. 822
Bastet, Victorien-Antoine, Paris.
13. Abandoned. 822
Becquet, Just, Paris.
14. The Seine at its Source. 822
15. Faun Playing with a Panther. 822
Belin, Joseph, Paris.
16. Toby. 822
Beguine, Michael-Leonard, Paris.
17. The Charmer. 820
18. David Conqueror. 820
Blanchard, Jules, Paris.
19. Tintoret's Daughter. 820</p> | <p>20. Head of a Woman. 822
Bonheur, Isidore, Paris.
21. Jugglers. 822
22. Chevalier of Louis XV. 822
23. Percheron Horse. 822
Boucher, Alfred, Paris.
24. On the Ground. 820
Cain, Auguste, Paris.
25. Rhinoceros Attacked by Tigers. 820
26. Eagle and Vulture Quarreling over a
Dead Bear. 820
27. Lion Strangling a Crocodile. 820
Cambos, Jean-Jules, Paris.
28. Return of Spring. 820
Carles, Antonin-Jean, Paris.
29. Abel. 820
Cazin, Mme. Marie, Paris.
30. Young Girls. 822
Chapu, Henri-Michel-Antoine.
31. Joan of Arc. 820
Chatrousse, Emile, Paris
32. Young Contemporary. 820
Chevre, Paul, Paris.
33. Cocks Fighting. 820
Choppin, Paul-Francois, Paris.
34. Volunteer of 1776. 822
Claudé, Mlle. Camille, Paris.
35. Bust of M. Rodin. 822
Colle, Charles-Alphonse, Paris.
36. Ophelia. 820
37. The Minuet 822
Croisy, Aristide, Paris.
38. The Doll's Toilet. 820
Daillion, Horace, Paris.
39. Modesty. 820</p> |
|--|---|

DEPARTMENT K.—FINE ARTS.

- | | | | |
|---|-----|---|-----|
| Delaplanche, the late Eugene, Paris. | | Larroux, Antonin, Paris. | |
| 40. Sincerity. | 820 | 79. Judith. | 820 |
| Dubois, Paul, Paris. | | Lemaire, Hector, Paris. | |
| 41. Four Figures from the Tomb of Lam-
oriciere. | 820 | 80. Graziella. | 820 |
| Durand, Ludovic, Courbevoie. | | 81. Eclipse of the Moon. | 820 |
| 42. The Caress. | 820 | 82. Mother Love. | 820 |
| Falguiere, Jean-Alexandre-Joseph,
Paris. | | 83. Child and Rose. | 820 |
| 43. Republican France, Allegorical Statue
Ordered by the French Government
Section. | | 84. The Task. | 820 |
| 44. Diana Shooting. | | 85. The Swan. | 820 |
| 45. Diana. | | 86. Pandora. | 820 |
| Fosse, Athanase-Theodore-Frederic,
Paris. | | 87. Ocean of Love. | 822 |
| 46. Souvenir of the Night of Sept. 4, 1851. | | Leroux, Etienne, Paris. | |
| Fouques, Henri-Amedee, Paris. | | 88. Young Woman Playing with her Child. | 820 |
| 47. "Fox," a Pointer. | | Levasseur, Henri-Louis, Paris. | |
| Fremiet, Emmanuel, Paris. | | 89. The First Born. | 822 |
| 48. Man of the Stone Age. | 820 | 90. The Conqueror at the Tournament. | 822 |
| 49. The Wounded Dog. | | 91. Card Plate. | 822 |
| Frere, Jean, Paris. | | Lombard, Henri-Edouard, Paris. | |
| 50. The Two Pigeons | | 92. Diana. | 820 |
| Gaudez, Adrien, Neuilly-sur-Seine. | 820 | Marioton, Eugene, Paris. | |
| 51. The Nymph Echo. | 822 | 93. Chactas. | 820 |
| Geoffroy, Adolphe-Louis-Victor, Paris. | | Marqueste, Laurent-Honore, Paris. | |
| 52. Tiger and Antelope. | 820 | 94. La Cigale. | 820 |
| Granet, Pierre, Paris. | | 95. M. Patenotre, Ambassador of France
to the United States. | 820 |
| 53. Youth and Fancy. | 820 | Marquet De Vasselot, Anatole, Paris. | |
| Gravillon, Arthur de, Paris. | | 96. Sculptures of the Renaissance. | 820 |
| 54. Cardinal Foulon, Archbishop of Lyon. | 820 | 97. Massoule, Andre-Arthur-Paul, Paris. | |
| Guglielmo, Lange, Paris. | | 97. An Ancestor. | 820 |
| 55. Study of a Head. | 820 | Meissoiner, Jean-Louis-Ernest, Paris. | |
| Hannaux Emmanuel, Paris. | | 98. The Herald of Murcia. The Trumpet
of Louis XIII. | 823 |
| 56. Mercury and Bacchus. | 820 | 99. Duroc. | 823 |
| 57. Phryne. | 820 | 100. Design for a Mantel. | 823 |
| Hirou, Ernest, Paris. | | 101. The Dancing Muse. | 823 |
| 58. Hedge Roses. | 820 | 102. Wounded Horse from the Group en-
titled The Siege of Paris. | 823 |
| Houdain, Andre, Paris. | | Mercie, Antonin, Paris. | |
| 59. Faun. | 820 | 103. David the Victor. | 820 |
| Houssin, Edouard-Charles, Paris. | | 104. "Even So!" | 820 |
| 60. In Danger. | 820 | Mezzara, Mme. Florence, Mulhouse. | |
| 61. Bust of M. Demont-Breton. | 822 | 105. The Virgin, Child Jesus and St. John
the Baptist. | |
| 62. Bust of Mme. Demont-Breton. | 822 | Michel, Gustave, Paris. | |
| Hugues, Jean, Paris. | | 106. The Blind Man and the Paralytic. | 820 |
| 63. Oedipus at Colonna | | 107. Fortune Holding up her Diadem. | 820 |
| 64. Immortality. | 820 | 108. Aurora. | 820 |
| 65. Woman Playing with her Child. | | Millet, the late Aime, Paris. | |
| Icard, Honore, Paris. | | 109. Ariadne Abandoned. | 820 |
| 66. The Rights of Man. | 820 | Mombur, Jean-Ossaye, Paris. | |
| Idrac, Antoine-Jean-Marie. | | 110. An Idyl. | 822 |
| 67. Salammbo. | 820 | 111. Washington. | 822 |
| Itasse, Adolphe, Paris. | | 112. Lafayette. | 822 |
| 68. Love Conqueror. | 822 | Moreau-Vauthier, Augustin-Jean,
Paris. | |
| Itasse, Mlle. Jeanne, Paris. | | 113. Bacchante. | 820 |
| 69. Egyptian Harpist. | 822 | 114. Fortune. | 820 |
| 70. Head of an Old Woman. | 822 | 115. Nereide. | 820 |
| Kinsburger, Sylvain, Paris. | | 116. Florentine Head. | 820 |
| 71. In Danger. | 820 | 117. Bacchante. | 820 |
| Labatut, Jules-Jacques, Paris. | | Paris, Auguste, Paris. | |
| 72. Oath of Hannibal. | 822 | 118. The Return. | 821 |
| Lami, Stanislas, Paris. | | Pecou, Jean-William-Henri, Paris. | |
| 73. First Transgression. | 820 | 119. Bust of M. E. Boeswillwald. | |
| 74. Danish Hound. | 820 | Peene, Augustin-Pierre-Charles,
Paris. | |
| Lanson, Alfred, Paris. | | 120. Portrait of Mme. C—. | 820 |
| 75. The Age of Iron. | 822 | Perrey, Leon-Auguste, Paris. | |
| 76. Diana. | 822 | 121. Death of Jezebel. | 820 |
| Larche, Raoul, Paris. | | Peyrol, Hippolyte, Paris. | |
| 77. Jesus Before the Rabbis. | 820 | 122. Protection. | 822 |
| 78. At the Mirror. | 820 | | |

FRANCE.

- Pompon, Francois, Paris.**
123. The Martyr St. Catherine.
Puech, Denys, Paris.
124. The Siren. 820
125. The Star. 820
126. Young Cupid. 822
Rombauid, Pierre, Paris.
127. Agrippe, d'Aubigne. 823
Ringel, d' Illzach, Paris.
128. Perversity. 822
129. A Persian Woman. 820
130. Bas-relief in Baked Clay.
Eugene, Robert, Paris.
131. In the Woods. 820
Rodin, Auguste, Paris.
132. Burgess of Calais. 820
133. Portrait of a Man. 822
Roubaud, Louis-Auguste, Paris.
134. The Vocation. 822
Rougelet, Benedict, Paris.
135. Hero and Leander. 820
Saint-Marceaux, Rene de, Paris.
136. Spirit Guarding the Secret of the Tomb. 820
Sanson, Justin Chrysostome, Paris.
137. A Conqueror. 820
Soules, Felix, Paris.
138. The Rape of Iphigenia. 820
Turcan, Jean, Paris.
139. The Blind Man and the Paralytic. 820
Vaucanu, Emile, Paris.
140. Normandy. 820
141. An Oriental. 820
Verlet, Raoul-Charles, Paris.
142. The Grief of Orpheus.
143. Baby.
Weyl, Mme. Jenny, Paris.
144. Lucrezia Buti. (Marble.) 821
145. Fifteen Years. (Bronze.) 822
 Casts of French sculptures from 11th to the 19th century.
 Exhibited by the Bureau of Historical Monuments from the studios of the Museum of Comparative Sculpture and the Museums of Decorative Arts and of the Louvre.
 Eleventh and 12th Century.
146. Church of Notre-Dame-du-Port, in Clermont-Ferrand—Portal of Southern Façade.
147. Cloister of Saint-Trophime at Arles.
148. Cathedral of Bourges.
149. The Church of Saint-Martin at Brive.
150. Church of Sainte-Croix at Charite (nièvre).
151. The Monastery of Charlieu.
152. Cathedral of Chartres.
153. Cloister of Moissac, Five Capitals.
154. Church of Sainte-Eutrope at Saintes, Two Capitals of Pilasters of the Nave.
155. The Abbey Church Saint Gilles, Central Door and Part of the Western Façade.
156. Cloister of the Abbey of Daurade in Toulouse, Two Capitals of Columns.
157. Cathedral of Amiens, East Front Pier of Central Door; 13th century.
158. Cathedral of Amiens, West Façade, Bases of Left Hand Door, with Figures, The Month, Signs, etc.; 13th century.
159. Cathedral of Amiens, South Façade, Lintel and Pier of Door of Saint-Honore; 13th century.
160. Cathedral of Amiens: Tomb of Evrard of Foulloy. 13th century.
161. Cathedral of Laon: Six Capitals of Columns of the Triforium. 13th century.
162. Cathedral of Paris: Western Façade, Frame of Left-hand Door. 13th century.
163. Cathedral of Paris: West Façade, Part of Left Door of. 13th century.
164. Cathedral of Paris. Hanging of Door in West Façade. 13th century.
165. Cathedral of Reims: Panel of Left Door of Transept. 13th century.
166. Cathedral of Reims: Decoration of the Interior Wall—West Side. 13th century.
167. Cathedral of Reims: Figure of Prophet from Interior of West side.
168. Cathedral of Reims: Base and Capital of Pillar. 13th century.
169. Cathedral of Rouen: Part of West Door. 13th century.
170. Chapel of Saint-Germer: Ancient Altar Piece — Museum of Cluny. 13th century.
171. Cathedral of Bordeaux: Door of North Transept. 14th century.
172. Cathedral of Lyons: Dais Surmounting a Niche, and Doors of Western Front. 14th century.
173. Cathedral of Sens: Lower Part of Right-Hand Door of Western Front. 14th century.
174. Church of Saint-Urbain at Troyes, Embellishment of Choir Gallery. 14th century.
175. Statue of William de Chanac, from the Louvre. 14th century.
176. Statue of Philippe VI, King of France, from the Louvre.
177. Château de la Ferte-Milon, High relief over door. Coronation of the Virgin. 15th century.
178. Château du Lude, Statuette of Angel for Vane (in hammered copper). 15th century.
179. Statue of Philippe de Morvillier, First President of Parliament of France, from the Louvre. 15th century.
180. Cathedral of Aix, Door of West Façade. 16th century.
181. Cathedral of Beauvais, Door of South Transept. 16th century.
182. Cathedral of Chartres, six Pilasters from Choir Screen, Jean le Texier. 16th century.
183. Château de Gaillon, Stalls from the Chapel Choir. 16th century.
184. Gallery in the Cathedral of Limoges (artist unknown). 16th century.
Jean Cousin (attributed to).
185. Cathedral of Mans.
186. Tomb of William of Bellay.
Hotel Carnavalet, Paris.
Jean-Goujon.
187. Abundance.
188. Children.

DEPARTMENT K.—FINE ARTS.

189. Diana.
 190. Famous Ones.
 191. Two Victories. The Louvre.
 192. Child with a Whistle.
 193. Decorations of the Stairway of Henry II.
 194. Compartments with Deer's Head and Fruit.
 195. Compartments with Lion's Head and Vase with Flames.
 196. A Group of Children.
 197. Ceiling Piece.
 198. The Infant Jupiter.
 199. Posts Forming a Square.
 200. Top of Frame and Crown of Fruit.
 201. Young Tritons Forming Tubes.
 202. Tubes Forming Frames.
 203. Door Jambs Ornamented with Flowers.
 204. Head of Faun.
 205. Church of St. Maclou at Rouen. Western Façade.
 206. Door of the North Transept of the Church of St. Maclou at Rouen. **Michael Colombe (1512).**
 207. The Tomb of Frances II, Duke of Brittany, and of Marguerite de Foix from the Cathedral of Nantes. **Jean Goujon.**
 208. Bas-relief for the Fountain of Innocents, Paris.
 209. Nymph of the Seine. Tritons and Nereids. Nymph of the Seine. **Paul Ponce.**
 210. The Trophies.
 211. Nine Masks, Fauns and Satyrs.
 212. Lion. **Jean Cousin and Jean Goujon (attributed to).**
 213. Cathedral of Rouen—Tomb of Louis Breze.
 214. Five Bas-reliefs Representing the Field of the Cloth of Gold, from the Hotel of Bourghtheroulde, at Rouen. **Germain Pilon.**
 215. The Interior of the Abbey Church.
 216. The Tomb of Henry II and Catherine of de Medicis, with their Statues. **Jean Juste.**
 217. Tomb of the Children of Charles the VIII, King of France, in the Cathedral of Tours.
 218. One of the Bas-reliefs of the High Altar in the Church of St. Jean at Troyes.
 219. Bas-relief Representing the Adoration of the Magi in the Church of St. Nicholas of Troyes. **Michel Colombe.**
 220. Saint George and the Dragon. The Louvre. **Michel Colombe.**
 221. The Virgin with the Child, called the Virgin of Olivet. (The Louvre.)
 222. Figure of Roberte Legendre from a Tomb of 1522. **Germain Pilon.**
 223. Virgin of Grief, called the Virgin of Saint Cyr. **Germain Pilon (1535).**
 224. The Three Graces.
 225. **Barthelemy Prieur (1611).** Marie de Brabançon-Cany. **Pierre Puget (1622-1694).**
 226. Door of the Hotel de Ville at Toulon. **Pierre Puget.**
 227. Faun. **Girardon (1628-1715).**
 228. Nymphs Bathing. **Lehongre (1628-1690).**
 229. River and Children. **Legros (1629-1714).**
 230. River and Children. **Lehongre.**
 231. Nymph and Love on a Dolphin. **Legros.**
 232. Nymph and Love on a Dolphin. **Coysevox (1640-1720).**
 233. The Garonne River. **Coysevox.**
 234. The Dordogne River. **Magnier (1647-1715).**
 235. Nymph and Love. **Magnier.**
 236. Nymph and Love. **Van Cleve (1645).**
 237. Group of Children.
 238. Bronze Group of Children Playing with Snow. **Masson (1627-1684).**
 239. Lead Torch-Bearer, 17th century. **Lehongre.**
 240. Torch-Bearer, 17th century. **Lehongre.**
 241. Vase of 17th century.
- Parterre of Latone.**
- Jean Dedieu.**
 242. Bacchante. **Lecomte (1737-1817).**
 243. Hercules. **Coysevox.**
 244. Nymph with a Shell.
- Chateau of Marly.**
- Coysevox.**
 245. A Shepherd and Little Satyr. **Nicolas Coustou (1658-1733).**
 246. Adonis Resting From the Chase. **Coysevox.**
 247. Flora and Love. **Coysevox.**
 248. Hamadryad and Child. **Coysevox (1685-1720).**
 249. Maria Adelaide of Savoy. **Nicolas Coustou.**
 250. Ancient Custom-House at Rouen. **Robert LeLorrain.**
 251. The Ancient Hotel de Rohan at Paris. **Guillaume Coustou.**
 252. Maria Leczinska, Queen of France. **Pierre Julien.**
 253. Nymph with Goat. **Houdon.**
 254. Diana. **Houdon.**
 255. Voltaire. **Francois Rude.**
 256. Neapolitan Fisherman. **Barye.**
 257. Jaguar and Hare. **Barye.**
 258. Lion Strangling a Boa.

FRANCE.

GROUP 140.

Paintings in Oil.

- Abbema, Louise, Paris.
 259. Japan.
 Achille-Cesbron, Paris.
 260. Sleep Flower.
 Adam, Louis-Emile, Paris.
 261. Return of the Grape Pickers.
 262. Last Ray of the Sun.
 Agache, Alfred-Pierre, Paris.
 263. Vanity.
 264. The Annunciation.
 265. A Witch.
 Allegre, Raymond, Paris.
 266. The Old Port, Marseilles.
 267. Villefranche.
 Aman-Jean, Edmond, Paris.
 268. Venice.
 269. In Sicily.
 Appian, Adolphe, Lyon.
 270. Morning Fog.
 Argence, Eugene d', Paris.
 271. Night in the Hamlet of Preval.
 Attendu, Ferdinand, Paris.
 272. Corner in a Creamery.
 Aubert, Ernest-Jean, Paris.
 273. Love's Captives.
 Aublet, Albert, Paris.
 274. Women on the Seashore.
 275. The Aged.
 276. The Sacrament.
 Auguin, Louise-Augustin, Bordeaux.
 277. Cape Breton Heath.
 Axillette, Alexis, Paris.
 278. Love and Folly.
 279. A Huntress.
 Bail, Joseph, Paris.
 280. Young Scullion Playing with a Cat.
 Bail, Jean-Antoine.
 281. At Nesle-la-Vallee.
 282. In the Cellar.
 Baillet, Ernest, Paris.
 283. The First Lights on the Seine.
 284. September Morning on the Seine.
 Balouzet, Auguste, Lyon.
 285. Morning in the Meadows near Riorges.
 Barau, Emile, Neuilly-sur-Seine
 286. In Autumn.
 287. The Rouazes.
 Barillot, Leon, Paris.
 288. Train 47.
 289. The Valley of Seulles.
 Barrias, Felix-Joseph, Paris.
 290. Returning from Circumcision, Tanger.
 291. Conjuring among Courtesans, Venice.
 292. The Narghileh. Georgian and Circassian.
 Bartholome, Albert, Paris.
 293. Hunting the Slipper.
 Baschet, Marcel, Paris.
 294. Portrait of My Grandmother.
 295. Portrait of Mademoiselle X.
 Baudoume, Paul-Albert, Paris.
 296. Miamosa.
 297. Portrait of Mr. Elisee Reclus.
 Beauvais, Armand, Paris.
 298. La Planche Baron.
 Beauverie, Charles-Jos, Paris.
 299. Sun Piercing the Fog on the Lignon.
 300. The Potato Harvest.
 Benjamin-Constant, Paris.
 301. The Triumph of Christopher Columbus.
 302. Thirst—Morocco Prisoners.
 303. The Chief's Judgment.
 Benner, Emmanuel, Paris.
 304. The Alarm.
 305. Solitude.
 305½ Japanese Chrysanthemums.
 Beraud, Jean, St. Petersburg.
 306. Descent from the Cross.
 Bergeret, Pierre-Denis, Paris
 307. War, Art, Religion.
 308. Music.
 309. The Dessert.
 Bernier, Camille, Paris.
 310. Pines at Kerlagadic, Brittany.
 Berteaux, Hippolyte, Paris.
 311. Return of a Deserter.
 Berthelon, Eugene, Paris.
 312. A Port Life-boat Saving Men from the Boat Pauline, Wrecked on the Rocks near Grainval.
 Berton, Paul-Emil, Paris.
 313. White Poplars in the Forest of Fontainebleau.
 Bertrand, Paulin, Paris.
 314. Morning on the Seashore.
 Bosnard, Paul-Albert, Paris.
 315. Two Ponies Harassed by Flies.
 Beyle, Pierre-Marie, Chennevieres-sur-Marne.
 316. Life Saving from a Wreck.
 Billotte, Rene, Paris.
 317. Winter Fog at the Courcelles Gate.
 318. Moonrise on the Canal, St. Denis.
 Binet, Adolphe, Paris.
 319. The Lovers.
 320. The Close of Day.
 Binet, Victor-Barthelemy, Paris.
 321. The Pont des Arts, Paris.
 322. Paris from the Gentilly Quarries.
 Bisson, Elouard-Louis, Paris.
 323. The Ideal.
 Riva, Henri, Paris.
 324. Tremier Roses, Place de Versailles.
 Blanche, Jacques-Emile, Paris.
 325. The Host.
 Bompard, Maurice, Paris.
 326. Entrance of Old Chetma, Oasis, near Biskra.
 Bonheur, Rosa, Thomery.
 327. The King of the Forest.
 328. The Overthrow.
 Bonnet, Leon-Joseph-Florentin, Paris.
 329. Portrait of Cardinal Lavigerie.
 330. Portrait of M. Renan.
 331. Portraits of Misses Minna and Florence Field.
 Bennefoy, Adrien, Paris.
 332. The Nativity.
 Bonnefoy, Henri, Paris.
 333. A Family Group. Sheep.
 Bordes, Ernest, Paris.
 334. The Ribbon-Maker.
 Boucher, Alfred-Jean, Paris.
 335. The Old Road of Berville.
 Boucher, Joseph-Felix, Paris.
 336. April.
 Bouguereau, William-Adolphe, Paris.
 337. The Women at the Tomb.
 338. Our Lady of the Angels

DEPARTMENT K.—FINE ARTS.

339. The Wasp's Nest.
Boulard, Emile-Alexandre, Paris.
340. Close of the Mass.
Bourgain, Gustave, Paris.
341. Return on Board.
Bourgeois, Eugene-Victor, Neuilly.
342. Fishermen's Hut.
Bourgogne, Pierre, Sèvres.
343. Spring Flowers.
Bourgonnier, Claude, Paris.
344. Temptation.
Boutigny, Emile, Paris
345. Bonaparte in Italy.
346. Combat in a Village.
Bramtot, Alfred-Henri, Paris.
347. Job's Comforters.
348. The First Communion.
Bremont, Jean-Louis, Paris.
349. A Wave.
Brest, Fabius, Paris.
350. The Rialto Bridge, Venice.
Breton, Jules-Adolphe, Paris.
351. The Pardon of Kergoat.
352. Breton Woman.
353. Young Girls Going to the Procession.
Brispot, Henri, Paris.
- 354.* Returning from a Breton Pardon-
Brouillet, Andre, Paris.
355. Portrait of Mlle. Darland.
Brun, Charles, Paris.
356. The Wife of the Levite of Ephraim.
Brunet, Jean, Levallois-Perret.
357. Return of the Wedded Couple.
Buland, Eugene-Jean, Charly.
358. Propaganda.
359. The Apprentice's Lesson.
Burgkan, Mlle. Berthe, Paris.
360. A Widow.
Burnard, Eugene, Paris.
361. In High Pasture Grounds.
Busson, Charles, Paris.
362. Old Touraine Quarries.
363. The Port of Lavardin.
Cagnard, Emile, Paris.
364. Snow on Montmartre, Paris.
365. **Cain, Georges-Jules-Auguste, Paris.**
 A Barricade of 1830.
Cain, Henri, Paris.
366. At the Louvre Museum.
Caraud, Joseph, Paris.
367. The Grandmother.
Carolus - Duran, Emile - Auguste, Paris.
368. Portrait of Madame A.
369. Portrait of Madame G. F.
370. Portrait of Madame J. H.
Carrier - Belleuse, Louis - Robert, Paris.
371. At the Capstan.
Cave, Jules-Cyrille, Paris.
372. A Martyr in the Roman Catacombs.
Chaigneau, Jean-Ferdinand, Paris.
373. Moonrise.
374. A Summer Evening.
Chalon, Louis, Paris
375. Circe.
Chaperon, Eugene, Paris.
376. Soldiers Bathing.
Charpentier, Gaston, Paris.
377. A Stolen Kiss.
Chartran, Theobald, Paris.
378. Portrait of His Holiness Pope Leo XIII.
- Chigot, Eugene, Valenciennes.**
379. Evening at Berck-sur-Mer.
380. The Interrupted Fishing.
Clairin, Georges, Paris.
381. Drum-Major of the French Army
 Feeding Pigeons in St. Mark's
 Square, Venice.
Clary, Eugene, Paris.
382. The Reader.
Claude, Eugene, Paris.
383. A Parisian Carriage. (Flowers.)
Claude, Jean-Maxime, Paris.
384. Cross Purposes.
Collin, Raphael, Paris
385. Youth.
386. Portrait of My Father.
387. On the Sea Coast.
Costeau, Georges, Paris.
388. Decorative Panel—A Day in Autumn.
Courant, Maurice-Francis-Auguste, Poissy.
389. A Coming Storm.
390. The Bight of Saint Guenole.
Courtois, Gustave, Neuilly-Paris.
391. A Fortunate One.
392. Portrait of Madame Gauthereau.
Couturier, Leon, Paris.
393. At the Capstan—"Heave Round."
Dameron, Emile-Charles, Paris.
394. Growing Flowers on the Cape of
 Antibes.
Damoye, Pierre-Emmanuel, Paris.
395. Sunset Over the Marshes of Tremble-
 levif.
396. Breton Wheat Fields.
Dantan, Edouard, St. Cloud.
397. A Restoration.
398. "The Poor People."
Dardoize, Emile, Paris.
399. The Spring.
Dargent, Jan, Creac'h Andre.
400. Breton Night Spectres.
Dastugue, Maxime, Paris.
401. An Anniversary.
Dauphin, Eugene, Paris.
402. The Iphigenia in the Roadstead of
 Toulon.
David Nillelt, Germain, Paris.
403. October.
David De Sauzea, Jean, Paris.
404. At the Inn.
Dawant, Albert-Pierre, Paris.
405. Close of the Mass.
Debat - Ponsan, Edouard - Bernard, Paris.
406. Noon.
407. In My Greenhouse.
Delacroix, Henry-Eugene, Paris
408. Awakening.
409. Sea Birds and Wave.
410. The Enchanted Hour.
Delance, Feurgard, Paris.
411. In the Garden.
Delance, Paul-Louis, Paris.
412. Decorative Panel; Water.
Delobbe, Francois-Alfred, Paris.
413. Breakfast After the Bath.
Delort, Charles-Edouard, Paris.
414. The Recruiting Sergeant.
Delpy, Camille, Paris.
415. Washerwomen at Sunrise.
Demont, Adrien-Louis, Montgeron.
416. Lillies.

FRANCE.

417. Winter in Flanders.
 418. Youth.
Demont-Breton, Mme. Virginie, Mont-geron.
 419. A Drenching.
 420. Daybreak.
 421. In Wonderland.
Detaille, Edouard, Paris.
 422. A Passing Regiment.
 423. Attack on a Convoy.
Deully, Eugène - Auguste-François Paris.
 424. Dreams and Facts.
 425. Venus Wounded.
Deyrolle, Theophile-Louis, Con-carneau.
 426. Fishers Setting Out, Concarneau.
Dieterle, Georges-Pierre, Paris.
 427. The Cavalry at Criquebeuf.
Doucet, Lucien, Paris.
 428. Portrait of Mlle. M. du M. C.
 429. Portrait of Mlle. Yvonne L.
 430. Skaters.
Dubufe, fils, G., Paris.
 431. The Virgin's House.
 432. A Nest.
 433. The Ant.
Dubuisson, Albert, Paris.
 434. The Park at Versailles in Winter.
Duez, Ernest-Ange, Paris.
 435. Jesus Walking on the Water.
Duffaud, Jean-Baptiste, Paris.
 436. Portrait of my Mother.
Dufour, Camille, Paris.
 437. Auteuil Quay, Paris.
Dulac, Charles, Paris.
 438. The Fish Market.
Dumaresq, Charles-Edouard-Armand, Paris.
 439. Beranger's Song, "He was There, Grandmother."
Dumoulin, Louis, Paris.
 440. The Glycine Fêtes at Tokio.
Dupain, Edmond-Louis, Paris.
 441. The Passerby.
Dupre, Julien, Paris.
 442. Valley of the Durdent.
Durst, Auguste, Puteaux.
 443. The Siesta.
 444. Turkeys.
Duverger, Theophile - Emmanuel, Ecouen.
 445. Intemperance.
Eliot, Maurice, Paris.
 446. Life in the Fields.
 447. The Mills.
Fath, Rene-Maurice, Paris.
 448. A Swamp in April.
Ferrier, Gabriel, Paris.
 449. Portrait of Jules Claretie.
 450. Portrait of Mlle. O.
 451. The Guardian Angel.
Feyen, Eugène, Paris.
 452. The Cancale Regatta.
Flameng, Francois, Paris.
 453. The Flight into Egypt.
 454. Portrait of Madame X.
 455. Target Practice in the Trenches in Dieppe.
Flameng, Marie-Auguste, Paris.
 456. A Dock at Antwerp.
Fleury, Mme. Fanny, Paris.
 457. Young Girl.
Fonvielle, Ulric de, Paris.
 458. An Eclipse of the Moon.
Fouace, Guillaume Romain, Paris.
 459. Fish.
Foubert, Emile, Paris.
 460. The Banks of the Seine at Vetheuil.
Fouriè, Albert, Paris.
 461. In the Sunshine.
 462. Spring.
Fournier, Hippolyte, Paris.
 463. The Convalescent Young Mother.
Fouerier, Louis-Ferdinand, Paris.
 464. Washington and his Mother.
Franzini D'Issoncourt, Charles-Henry-Michel, Paris.
 465. Portrait of the Countess.
Frappa, Jose, Paris.
 466. The Return of Missionary.
Frere, Charles-Edouard, Paris.
 467. A Market at Sarcilles.
Friant, Emile, Paris.
 468. Shadows Lifted.
 469. Portrait of Antonin Proust.
Gagliardini, Julien-Gustave, Paris.
 470. A Foggy Morning.
 471. High Noon in Provence.
Galerie, Prosper, Paris.
 472. Valley of the Loire at Chateaudun
Garaud, Gustave-Cesaire, Paris.
 473. The Sluice.
Gautier, Amand, Paris.
 474. Still Life.
Gelibert, Jules-Bertrand, Cape Breton.
 475. Bear Hunt.
Gerzme, Jean-Leon, Paris.
 476. Serpent Charmer.
 477. (Edipus).
 478. A Street in Cairo.
Gervex, Henri, Paris.
 479. Portrait of Mlle. B.
 480. Mignon.
 481. Portrait of Doctor Evans.
Gigoux, Jean, Paris.
 482. Portrait of M. A. Caubert.
 483. A Reaper.
Gilbert, Rene, Paris.
 484. Fisherman.
Gilbert, Victor-Gabriel, Paris.
 485. Good Fishing.
 486. The Horoscope.
Girard, A., Paris.
 487. The Dew.
Girard, Firmin, Paris.
 488. Guests at a Fête on a Bressan Farm.
 489. The Finest Plants.
Girardot, Louis-Auguste, Paris.
 490. Happy They Who Die in the Lord.
 491. The Nomads.
Glaize, Pierre-Paul-Leon, Paris.
 492. Lucia, the Italian.
 493. A Signal.
Glaize, Auguste-Barthelemy, Paris
 494. The Blind Man and the Paralytic.
 495. The First Steps.
Godin, Francoise-Augustine-Marguerite, Paris.
 496. A Symphony in White.
Goeneutte, Norbert, Paris.
 497. The Morning Soup
Gorguet, Auguste-Francois, Paris.
 498. Contemplation.

DEPARTMENT K.—FINE ARTS.

- Gosselin, The late Charles.
 499. Landscape.
 Goubie, Jean-Richard, Paris.
 500. Through the Woods.
 Grolleron, Paul, Paris.
 501. A Capture in 1793.
 Guay, Gabriel, Paris.
 502. The Little Cardinal.
 Gueldry, Joseph-Ferdinand, Paris.
 503. The City Laboratory, Paris.
 Guignard, Gaston, Paris.
 504. Scouts in Flight.
 Guignery, Gustave-Alfred, Paris.
 505. Snow on the Plateau of the Fairies' Pool, Fontainebleau.
 Guillemet, J. B., Antoine, Paris.
 506. The Loing at Moret.
 507. The Bay of St. Vaast.
 Guillon, Adolphe-Irene, Paris.
 508. Under the Walnut Trees at Vezelay in Spring.
 Guillon, Eugene-Antoine, Paris.
 509. Portrait of M. G. A. E.
 Guillou, Alfred, Paris.
 510. "My Little Brother."
 Hareux, Ernest-Victor, Grenoble.
 511. Valley of the Lyr at Bagneres-de-Luchon.
 Henner, Jean-Jacques.
 512. Portrait of my Brother.
 513. Slumber.
 514. Lola.
 Hermann, Leon Charles, Paris.
 515. Boar on the Farm.
 Hirsch, Auguste-Alexandre, Paris.
 516. Moresque on a Tomb.
 Isembart, Emile, Besancon-Beauregard.
 517. On the Banks of the Doubs.
 Iwill, Marie-Joseph, Paris.
 518. November Evening.
 Jacob, Stephen, Paris.
 519. Bathers.
 Jacomin, Marie-Ferdinand, St. Germain-en-Laye.
 520. Landscape.
 Jamin, Paul-Joseph, Paris.
 521. The Luncheon.
 Jan-Montchablon, Ferdinand, Paris.
 522. Meadows and Woods.
 523. The Flowery Way.
 Japy, Louis, Paris.
 524. An October Evening in the Somme Valley.
 Jeannot, Pierre-Georges, Paris.
 525. Young Girl with a Boa.
 526. Kitchen-Garden.
 Jolyet, Philippe, Bayonne.
 527. Mignon.
 Joubert, Leon, Paris.
 528. The Mill Cottage at Clairefontaine.
 Jourdeuil, Adrien, Paris.
 529. Twilight and October Moon on the Banks of the Seine.
 Kreutzer, Alexandre-Ferdinand, Marlotte.
 530. Forest of the Deluge, Fontainebleau.
 Kreider, Alexis, Paris.
 531. Fruit.
 Krug, Edouard, Paris.
 532. (Edipus and Antigone.
 Lagarde, Pierre, Paris.
 533. The Close of Day.
 534. The Habitation.
 La Haye, Alexis-Marie, Nimes.
 535. The Little Claude, A Provencal Interior.
 536. Olive Grove on a Summer Evening.
 Lamy, P. Franc, Paris.
 537. Flowery Spring.
 Landelle, Charles, Paris.
 538. Young Girl of Toumourth, Algiers.
 Laroche, Amand, Paris.
 539. The Compact of Faust.
 La Touche, Gaston, Saint-Cloud.
 540. Strike of Miners.
 541. A Feast Day.
 Laugée, Desire-Francois, Paris.
 542. The Day of the Poor.
 Laugée, Georges, Paris.
 543. In the Springtime of Life.
 Laurens, Jean-Paul, Paris.
 544. The Seven Troubadours.
 545. Christopher Columbus.
 La Villette, Mme. Elodie, Lorient.
 546. The Sea, Port Blanc, Quiberon.
 Layraud, Joseph-Fortune, Valenciennes.
 547. Portrait of Liszt, made at Rome, 1869.
 Lebayle, Charles, Paris.
 548. The Shepherd and the Sea.
 Le Blant, Julien, Paris.
 549. The Return of the Regiment.
 LeCamus, Louis, Paris.
 550. The Seashore at Cape Martin.
 Lecomte, Victor, LaVarenne-St.-Hilaire.
 551. The First Heir.
 Leenhardt, Max, Paris.
 552. Mary Magdalen.
 Lefebvre, Jules, Paris.
 553. La Cigale.
 Leloir, Maurice, Paris.
 554. Manon Lescaut.
 555. Fleeting Protestants, 1685.
 Lemaire, Mme. Madeleine, Paris.
 556. The Fairies' Car.
 557. The Fall of the Leaves.
 558. Prunes.
 Lepere, Auguste-Louis, Paris.
 559. A Late September Twilight.
 Le Poittevin, Louis, Paris.
 560. On the Beach.
 561. The Road of La Courtine.
 Leroy, Paul-Alexander-Alfred, Paris.
 562. The Blind Men of Jericho.
 Leroy D'Etiolles, Mme. Helen, Paris.
 563. Diana.
 Le Senechal De Kerdreoret, Gustave-Edmond, Paris.
 564. Cancalaisse Women Returning from the Oyster Beds After a Storm.
 Lessore, Henri-Emile.
 565. The Modest Mother.
 Levy, Henri-Leopold, Paris.
 566. The Death of Eurydice.
 Le Liepyre, Maurice, Paris.
 567. The Fishing Party.
 Lhermitte, Leon-Augustin, Paris.
 568. Haying.
 569. Repose.
 570. The Friend of the Lowly.
 Loewe-Marchand, the late Frederic, Paris.
 571. Myrrha.

FRANCE.

- Loustaunau, Louis-Auguste-Georges, Paris.
572. Presentation of the Standard to Recruits.
573. Bridge Work at Bougival.
Lucas, Felix-Hippolyte, Paris.
574. Born of a Virgin.
Luminais, Evariste-Vital, Paris.
575. End of a Romance.
576. Sixteenth Century Chasseurs.
Luminais, Mme. Helene, Paris.
577. Decorative Figure, Erato.
Lunois, Alexandre, Paris.
578. Last Rays.
Machard, Jules, Paris.
579. Garden Party.
Maignan, Albert, Paris.
580. The Birth of the Pearl.
581. William the Conqueror.
582. The Siren's Couch.
Maillart, Diogene-Ulysse, Paris.
583. Joan of Arc Listening to the Voices.
Marais, Adolphe.
584. The Saulec.
585. Returning Home.
Martin, Jean-Guillaume-Henri, Paris.
586. A Lie.
587. Spring.
588. Young Saint.
Mathey, Paul, Paris.
589. First Trial.
Merlot, Emile-Justin, Paris.
590. Herds in the Marshes of the Somme.
Michel, Marius, Paris.
591. Photograph of a Mummy.
592. A Pastel Painter.
Monginot, Charles, Paris.
593. A Medallist.
Montenard, Frederic.
594. On the Brink of the Well.
595. Under the Arbor.
Montzaigle, Edgard de, Paris.
596. Five O'Clock.
Moreau, Adrien, Paris.
597. The Bath.
Morlau De Tours, Georges, Paris.
598. Carnot at Wattignies.
599. Morphiamania.
Morlon, Antoine-Paul-Emile, Paris.
600. The Struggle for Life.
Morot, Nicolas-Aime, Paris.
601. "Bravo, Toro!"
602. Prisoner.
Moteley, Jules-Georges, Paris.
603. Old Washing Place at Clecy.
Motte, Henri-Paul, Neuilly-sur-Seine.
604. Circe Changing the Companions of Ulysses into Swine.
Mousset, Pierre-Joseph, Saint-Mande.
605. The Toilet.
Moutte, Alphonse, Marseilles.
606. In the Sunshine.
607. Entrance to the Harbor of Marseilles
Moyse, Edouard, Paris.
608. The Arrival at the Synod.
Muenier, Jules-Alexis, Paris.
609. Algerian Women on the Housetops.
610. Fine Days.
611. On the Bridge.
Munier, Emile, Paris.
612. The Cold Bath.
- Muraton, Louis, Paris.
613. Portrait.
Nardi, Francois, Paris.
614. Mistral Wind Blowing on the Sea.
Nemoz, J. B. Augustin, Paris.
615. On the Brink of the Abyss.
Noirot, Emile, Roanne.
616. The Loire at the Falls of Perron.
Nozal, Alexandre, Paris.
617. Wheat Shocks near Lecuyer Farm
Etretat.
618. In the Bay of Mont Saint-Michel.
Olive, Jean-Baptiste, Paris.
619. The Isle of Maire, near Marseilles.
Otemar, Edouard d', Paris.
620. Corner in a Studio.
Paradis, Adrien, Paris.
621. Hector Berlioz.
Paris, Alfred, Paris.
622. In Full Flight.
Paris, Camille, Paris.
623. Ancient Gate of the Tiber at Rome.
Peraire (late), Paul, Paris.
624. Buckwheat in Bloom, Banks of the Loire.
Pelouze (the late), Leon-Germain, Paris.
625. Environs of Jumieges.
626. Street of Avanne (Doubs).
627. The Mill of Chatel-Cuzance (Doubs).
Perrault, Leon, Paris.
628. Young St. John.
629. Sappho.
Perret, Marius, Paris.
630. The Smala of Taadmit, South Algerian.
Perret, Aime, Paris.
631. Distribution of Prizes.
632. The Old Shepherd.
Petitjean, Edmond, Paris.
633. Village in Champagne.
634. Landscape in Lorraine.
Peyrol, Bonheur, Paris.
635. Cows on the Beach.
Pezant, Aymar, Paris.
636. Road of Vaudancourt.
637. Portrait of a Man.
Pointelin, Auguste-Emmanuel, Paris.
638. Blue Mountain.
639. Fine Morning.
640. An October Evening.
Priou, Louis, Paris.
641. Satyr Under Shelter.
Pujol, Paul, Paris.
642. The Place de L'Institut.
Quignon, Fernand-Just, Paris.
643. Moyettes.
644. The Plain in Twilight.
Quinton, Clement, Paris.
645. Saint Maur.
646. Coming Out of the Quarry.
Quost, Ernest, Paris.
647. Decorated Panel, Flowering Laurels.
648. My Birds.
Rachou, Henri, Paris.
649. Portrait.
Ravenne, Gustave, Paris.
650. At Low Tide.
Raffaelli, Jean-Francois, Paris.
651. The Grandfather.
652. The Peasants of Plougasnou, Brittany.
653. In the Plains, Horses on the Road.

DEPARTMENT K.—FINE ARTS.

- Realier-Dumas, Paris.
 654. Luncheon Under the Trees.
 Renard, Emile, Paris.
 655. Retreat by Torchlight.
 Richemont, Alfred-Paul-Marie de, Paris.
 656. Sacrifice.
 Richet, Leon, Paris.
 657. Plain of Morat, near Fontainebleau.
 Rigolot, Albert-Gabriel, Paris.
 658. The Banks of the Doubs.
 659. Snow in the Forest of Fontainebleau.
 Rixens, Andre, Paris.
 660. Don Juan in Hell.
 Robert-Fleury, Tony, Paris.
 661. Portrait of Robert-Fleury.
 662. Under Louis XVI.
 Rochegrosse, Georges, Paris.
 663. The Spoil.
 664. The Affianced.
 Roger-Jourdain, Paris.
 665. Yachting.
 Roll, Alfred-Philippe, Paris.
 666. Young Girls.
 667. Women on the Grass.
 668. Trotting.
 Rondel, Henri, Paris.
 669. Portrait of James Gordon Bennett.
 Rongier, Mlle. Jeanne, Paris.
 670. Portrait of Madame Alexandre Nozal and her Son.
 Ronot, Charles, Paris.
 671. The Dead Conversing in the Other World.
 Rosset-Granger, Paris.
 672. Young Girls Chasing Butterflies.
 673. Flotsam and Jetsam.
 674. Evening at a Fete in Provence.
 Roussin, Georges, Paris.
 675. Portrait of Mademoiselle L. T.
 Roy, Marius, Paris.
 676. Zouaves and Fort Soldiers on Duty.
 Royer, Lionel, Paris.
 677. Love and Psyche.
 Rozier, Dominique, Paris.
 678. A Convent at Dieppe.
 Sain, Edouardi, Paris.
 679. Nanarella.
 Sain, Paul-Jean-Marie, Paris.
 680. The Chalky Road near Avignon.
 Saintin, Henri, Paris.
 681. Portrait of Professor Charcot.
 Saintin, Jules-Emile, Paris.
 682. Reverie.
 Saint-Germier, Joseph, Paris.
 683. Close of a Bull Fight at Seville.
 684. Holy Week at Seville.
 Saint-Pierre, Gaston-Casimir, Paris.
 685. Soudja Sari.
 686. The Fortunate One.
 Saubes, Daniel-Leon, Paris.
 687. Marat, Friend of the People.
 Sautai, Paul-Emile, Paris.
 688. Meditation.
 Sauzay, Adrien-Jacques, Paris.
 689. Village in Lorraine, Banks of the Mouzon.
 Scherrer, Jean-Jacques, Paris.
 690. Ducal Despremenil Mobbed by the Populace; 1793.
 Sinibaldi, Paul, Paris.
 691. Salammbo.
 692. A Daughter of Rajahs.
 Surand, Gustav, Paris.
 693. St. George and the Dragon.
 694. Annam Tiger.
 Tanzi, Leon, Paris.
 695. Spring.
 Tattegrain, Francis, Paris.
 696. Worm Hunter at Daylight.
 Tavernier, Paul, Paris.
 697. Pikeman Sounding the Retreat from the Water.
 Thiollet, Alexandre, Paris.
 698. Mouth of the Seine at Villerville.
 Thirion, Eugene-Romain, Paris.
 699. Cupid and Psyche.
 700. "The Boats do Not Return."
 Thomas, Paul, Paris.
 701. First Commencement.
 Thurner, Gabriel, Paris.
 702. My Start in Hunting.
 Tissot, James, Paris.
 The Prodigal Son. Two paintings.
 703. The Departure.
 In a Strange Land.
 704. The Return.
 The Fatted Calf.
 Thys, Gaston, Paris.
 705. A Bather.
 Tournes, Etienne, Paris.
 706. Very Sleepy.
 Truchet, Abel, Paris.
 707. Place de la Concorde, Paris.
 Trupheme, Auguste, Paris.
 708. A Singing Lesson in a Public School in Paris.
 Umbricht, Honore, Paris.
 709. In the Vosges Mountain.
 Valadon, Jules-Emmanuel, Paris.
 710. Mater Dolorosa.
 Vauthier, Pierre-Louis, Paris.
 711. At the Fete of the Esplanade of the Invalides.
 Veyrassat, Jules-Jacques, Paris.
 712. The Last Load of Wheat.
 Vimont, Edouard, Paris.
 713. Wicked War.
 714. The Death of Archimedes.
 Vuillefroy, Felix de, Paris.
 715. In the Basque Country.
 716. Winter Pastures.
 717. An Inn in Old Castille.
 Weber, Jean-Joseph, Paris.
 718. Flushing.
 Weerts, Jean-Joseph, Paris.
 719. The Muscadine Hero.
 720. Portrait of Boucher-Cadart.
 721. Portrait of Firmin Javel.
 Weisz, Adolphe, Paris.
 722. The Gallant Chasseur.
 Wencker, Joseph, Paris.
 723. Basilissa.
 724. Portrait of M. Boulanger, Iron Master.
 725. Portrait of a Young Woman.
 Yarz, Edmond, Paris.
 726. Statue of Colleone, Venice.
 727. A Spring Morning near Paris.
 Yon, Edmond-Charles, Paris.
 728. A Cemetery in the Downs of Camiers-sur-Mer.
 Yperman, Louis, Paris.
 729. Saint Cecelia.
 Yvon, Adolphe, Paris.
 730. Portrait of President Carnot.

FRANCE.

731. Zillhardt, Jenny, Paris.
Spleen.
Zuber, Jean-Henri, Paris.
732. Under the Beeches.
733. Evening Fog.
734. Pasture Land in the Jura.
Zwiler, Auguste, Paris.
735. A Lesson at the Institute for the Blind
Children at Ilzach.

GROUP 143.

Engravings and Etchings; Prints.

Engravings and Lithographs.

- Alasoniere, Henri, Paris.
736. The Return.
Annedouche, Alfred-Joseph Paris
737. The Virgin.
Ardail, Albert, Paris.
738. Portrait of Madame Jarre.
739. The Little Girl and the Shepherds'
Crook.
Bahuet, Alfred, Paris.
740. Juan Prim.
Baude, Charles, Paris.
741. The Old Woman.
742. A. Dumas, Jr.
Baudoin, Franck, Paris.
743. A Drinker.
Bazin, Léon, Paris.
744. Erasmus.
Boilvin, Emile.
745. General Moreau.
746. The Bibliophiles.
747. Portrait of Mme. L. S.
Boutelié, Louis, Paris.
748. Portrait of Beatrice D'Este.
749. Annunciation of the Virgin.
Bracquemond, Felix, Sèvres.
750. David.
751. The Lost Chance.
752. The Water Drawers.
Brunet-Debaines, Louis, Rouen.
753. St. Peter's Church at Caen.
754. Willows Whiten, Aspens Quiver.
755. View of Venice.
Buhot, Felix, Paris.
756. Westminster Bridge.
Burney, François-Eugene, Paris.
757. Chocolate Woman.
758. Monseigneur de Segur.
Chaigneau, Ferdinand, Paris.
759. A Warm Day.
Chapon, Léon-Louis, Paris.
760. The Last Judgment.
Chauval, Theophile, Paris.
761. The Storm.
Damman, Benjamin-Auguste-Louis,
Paris.
762. The Reapers.
Danguin, Jean-Baptiste, Paris.
763. The Virgin.
764. Young Woman at Her Toilet.
765. Rembrandt's Sisters.
766. Portrait of Pius VII and Cardinal
Caprara.
Deblois, Charles-Théodore, Varanne-
Saint-Hilaire.
767. Interviewing.
Decisy, Eugène, Paris.
768. Oatmeal Broth, Breton House.
Delauney, Alfred-Alexandre, Paris.
769. Chartres Cathedral.

770. Mont St. Michael.
Delavallée, Henri, Paris.
771. Angelique at Her Window.
772. Snow Effect.
Derbier, Emile-Louis, Paris.
773. Grandmother.
Deville, Maurice, Paris.
774. Head of a Young Girl.
Desmoulins, Fernand, Paris.
775. The Empress.
776. Justice.
777. Portrait of Anne of Cleves.
778. Poetry.
779. Portrait of M. Thiers.
Didier, Adrien.
780. Justice.
781. Poetry.
782. Portrait of M. Thiers.
783. Portrait of Anne of Cleves.
Dillon, Henri-Patrice, Paris.
784. The Shower.
Dubouchet, Henri-Joseph, Paris.
785. Charon's Bark.
786. The Divine Tragedy.
Flameng, Leopold, Paris.
787. Shepherd.
788. The Glorification of Law.
789. Grolier at the Printer Alde's House.
Focillon, Victor-Louis, Paris.
790. The End of the Book.
791. Corner of the Farm.
Froment, Emile, Paris.
792. Portrait.
Froment, Eugene, Paris.
793. The Sheriffs.
Gaujean, Eugene, Paris.
794. Frame with two Colored Engravings—
Souvenir and The Abandoned One
Gautier, Armand.
795. Friday's Promenade.
796. Portrait of M. Delyenne.
Gilbert, Achille.
797. The Big Stag.
798. The Boars.
Goeneutte, Norbert, Paris.
799. Maud.
800. Venice from the Slavonic Quay
Guerard, Henri, Paris.
801. Rock Crystal Vase.
802. Portrait of my Mother.
803. The Bridge at Mantes.
Guichard, Mlle. Louise, Paris.
804. The Harbor of Dunkirk.
Gusman, Pierre, Paris.
805. Hill-Bobb.
Jacque, Frederic, Paris.
806. Herd of Sheep.
Jacquet, Achille, Paris.
807. The Report.
808. The Flag Painter.
809. The Sharpshooters.
Jacquet, Jules, Paris.
810. Portrait of the Sergeant.
811. "1814."
812. "1807."
Jacob-Bazin, Madame, Paris.
813. Springtime.
Laguillermie, Frederic - Auguste,
Paris.
814. The Children of Van Dyck
815. Portrait of Helen Fourment.
816. The Young Duke.

DEPARTMENT K.—FINE ARTS.

- Lalauze, Adolph.
 817. The Halt.
 Lamotte, Alphonse, Paris.
 818. The States' General, June 23, 1789.
 Lecouteux, Lionel, Paris.
 819. The Lunch.
 820. End of the Summer.
 821. Return from the Bear Hunt—Stone Age.
 Lepere, Auguste, Paris.
 822. Cathedral of Rouen.
 823. Fete at the Tuilleries.
 824. Close of Parliament at London.
 Lessore, Henri-Emile, Paris.
 825. Portraits of E. Morin and Jules Janin.
 Levasseur, Jules-Gabriel, Paris.
 826. The Cervarolles.
 827. The Oath of the Horatio.
 Leveille, Auguste, Paris.
 828. Bust of Dalou.
 829. Inauguration of the Opera.
 830. Bust of Baudry.
 Levy, Gustave.
 831. Virgin with a Veil.
 832. Melody.
 Louveau-Rouveyre, Mme., Paris.
 833. Portrait of Andre Vesale.
 Lunois, Alexandre, Paris.
 834. Wine.
 835. A Dutch Woman of Volendam.
 836. Night Worship.
 Manesse, Georges-Henri, Paris.
 837. Portrait of Madame Beereystine.
 838. Supposed Portrait of Louis del Rio's Wife.
 Mongin, Augustin, Paris.
 839. The Order.
 840. The Song.
 Pannemaker, Stephane, Paris.
 841. Young Girl.
 842. The Dream.
 Patricot, Jean, Neuilly-sur-Seine.
 843. Portrait of Raphael's Mother.
 844. The Vision of Ezekiel.
 Poncet, Jean-Baptiste, Lyon.
 845. Adam and Eve.
 846. The Burning Bush.
 847. Birth of Jesus.
 848. The Entry into Jerusalem.
 849. Jesus Ascending Calvary.
 Poynot, Mlle. Gabrielle, Paris.
 850. Reverie.
 Rapine, Francois, Boulogne-on-the-Seine.
 851. Rabbi, Commenting on the Bible.
 Robert, Charles, Paris.
 852. Portrait of Queen Isabel.
 Rousseau, Alfred, Paris.
 853. The Lost Travelers.
 Sirouy, Achille, Paris.
 854. The Sleeping Jesus.
 855. The Descent from the Cross.
 856. Venus and Adonis.
 Sulpis, Jean-Joseph.
 857. Staircase of the Opera House.
 Sulpis, Emile-Jean, Paris.
 858. Saint Sebastian.
 Tissot, James, Nantes.
 859. The Prodigal Son, The Departure, In a Foreign Land, The Return.
 860. The Fatted Calf.
 Villemsens, Adrien, Noisy-le-Grand, Seine-et-Oise.
 861. Marriage of Charles VII and Anne de Bretagne.
 Vintraut, Frederic-Godefroy, Havre.
 862. The Bohemian Girl.
 863. A Man's Head.
Drawings, Pastels, Water Colors and Miniatures.
 Allonge, Auguste, Paris.
 864. Descent Into Wolf Hollow, Fontainebleau.
 865. The Fairies' Pool, Fontainebleau.
 Bida, Alexandre, Paris.
 866. Christ Resurrecting the Daughter of Jairus.
 867. Six Water Colors for an Edition of Shakespeare.
 Biva, Henri, Paris.
 868. Roses and Nasturtiums.
 Bonnefoy, Adrien-Adolphe, Paris.
 869. The Water Color Painter.
 Contal, Jeanne, Paris.
 Seven Miniatures on Ivory, framed:
 870. The Letter.
 871. Young Girl.
 872. Portrait of M. M. C.
 873. The Smile.
 874. Portrait of Emil T.
 875. Portrait of M. T.
 876. Young Girl with a Boa.
 Bellanger, Camille-Felix, Paris.
 877. Portrait of Mme. B.
 Cagniard, Emile, Paris.
 878. Place de la Concorde, Paris.
 879. Place du Chatelet, Paris.
 Cazin, Mme. Marie, Paris.
 880. Meditation.
 D'Argence, Eug., Paris.
 881. Moonlight.
 Houssay, Mlle. Josephine, Paris.
 882. Portrait of Madame A. D. S.
 Houbron, Frederic, Paris.
 883. Village Idyl.
 Iwill, Marie-Joseph, Paris.
 884. Morning.
 885. An April Evening in Fontainebleau Forest.
 Laurens, Jean-Paul, Paris.
 886. Set of Drawings Illustrating Merovingian History.
 Mirmont, Mlle. Renee de, Paris.
 Six Ivory Miniature Portraits:
 887. Portrait of Mlle. H. de M.
 888. Portrait of Count C.
 889. Two Portraits of Children.
 890. Portrait of a Young Girl.
 891. Portrait of Countess S.
 Mouren, Henry, Paris.
 892. Banks of the Sarthe, Morning.
 893. Twilight on the Sarthe.
 Pointelin, Auguste-Emmanuel, Paris.
 894. Banks of the Ain.
 895. Oak, Twilight.
 896. Plateau of Saint-Laurent (Jura).
 Raffaelli, Jean-Francois, Paris.
 897. Neapolitan Fruit Seller and his Donkey.
 898. Flowers and Fruit.
 Renouard, Paul, Paris.
 899. The President of the Senate at Washington, Senators, Metropolitan Club, Cosmos Club.

FRANCE.

900. Speaker of the House and Newspaper Correspondents.
 901. Committee of Ways and Means, Committee of Appropriations.
Richard, Mme. Hortense, Paris.
 Girl Sleeping.
 Miniatures on Ivory.
 902. Little Girl at Prayer.
 903. Portrait of the Countess of D.
 904. Painting on Porcelain.
 905. A Venetian Lady.
Rehin, Victorine, Paris.
 Vittoria Colonna.
 906. **Salard, Mme. Celine, Paris.**
 Poppies.
 907. **Thierat, Mlle. Melitine, Paris.**
 908. Five Miniatures, Framed:
 Young Woman of the Directory, Walking.
 Young Woman under the Consulate.
 Study of a Young Girl.
 Portrait of Mlle. J. R.
 Portrait of M. R.
Society of French Water Color Artists.
Bethune, Gaston, Paris.
 909. A Parisian Woman.
 910. Fort of Villefranche.
 911. Belfry at Bruges.
 912. Cathedral at Antwerp.
 913. On the Escaut at Antwerp.
 914. Beech at Blanckenbergh.
 915. Lake Bourget, Savoy.
 916. A Parisian Woman.
Boutet de Monvel, Maurice, Paris.
 917. A Fairy Tale.
 918. Salome.
 919. The Curate is going out.
 920. A Timid Visitor.
 921. Portrait of a Child.
Clairin, Georges, Paris.
 922. At Seville.
 923. Venice in the Last Century.
Claude, J. Max, Maisons-Laffitte.
 924. Souvenir of Rotten Row, London
Claude, Georges, Paris.
 925. Adoration of the Cross, Good Friday at Monte-Cassino, Italy.
 926. A Neapolitan Song.
Courant, Maurice-Francois-Auguste, Poissy.
 927. On the Strand.
 928. The Joyous Bay.
 929. The Fish Tank, Concarneau.
Detaille, Edouard, Paris.
 930. Kakemono—Winter.
 Illustrations for the new edition of "The Theatre" by Emile Augier.
 931. 1. The Adventuress.
 932. 2. Gabrielle.
 933. 3. Mlle. Baretta as Celia.
 934. 4. Mme. Plessis as Clorinda.
Escalier, Nicolas, Paris.
 935. A Farm at Loir et Cher; Starting for the Market.
 Learning how to Fish.
Gros, Lucien, Poissy.
 936. The Quay, Honfleur.
 937. The Bravi.
 938. Horses Drinking.
Jeannot, Pierre-Georges, Paris.
 939. Troopers on the March.
 940. At the Cafe.

- Lemaire, Mme. Madeleine, Paris.**
 941. A Ball in 1830.
 942. "Farewell."
Moreau, Adrien, Paris.
 943. Grape Picker.
 944. The Vow.
 945. A Game of Chess.
 946. Plunderers.
Penne, Olivier de Paris.
 947. Gordon Setters.
 948. Griffons.
Pujol, Paul, Paris.
 949. St. Mark's Plan.
 950. Pont de la Concorde.
Rivoire, Francois, Paris.
 951. Autumn Flowers.
 952. The Overturned Basket.
Rochegrosse, Georges, Paris.
 953. The Poet.
Roulet, Gaston, Paris.
 954. Field Valley.
 955. The Old Port of Toulon.
Tenre, Henri, Paris.
 956. Reading.
 957. The Secret.
 958. Church of St. Remy, Rheims
 959. The Well.
 960. A Cotillon.
Toudouze, Edouard, Paris.
 961. The Rocker.
Yon, Edmond-Charles, Paris.
 962. The Burgundy Gate, Moret.
 963. Moret from the Right Bank of the Loing.
 964. Cape Monaco, from the Heights Above.
Zuber, Jean-Henri, Paris.
 965. A Summer Day on the Dunes near Granville.
 966. In the Mountains, near Sion, Switzerland.
 967. Garden of the Tuilleries.

Society of French Pastel Artists.

- Billotte, Rene, Paris.**
 968. Twilight, Road of St. Medard-en-Jalle.
 969. Vicinity of Paris, a Bastion.
 970. Moonrise, Quarries of Saint Denis.
Blanche, Jacques-Emile, Paris
 971. The Guest.
 972. The Awakening of the Little Princess.
Cazin, Mme. Marie, Paris.
 973. Summer.
Cheret, Jules, Paris.
 974. Columbine.
Dubufe, Guillaume, fils, Paris
 975. Slumber.
Eliot, Maurice, Paris.
 976. Sitting for a Portrait.
Helleu, Paris.
 977. Portrait of Mlle. X.
Jeannot, Pierre-Georges, Paris.
 978. Moonrise.
 979. A Reader.
Lagarde, Pierre, Paris.
 980. Evening at Vieux-Moulin.
La Touche, Saint-Cloud.
 981. The Perfume of Flowers.
Montenard, Paris.
 982. Alpine Regiment on the March in Provence.
 983. The Pont de Gard, Provence.

DEPARTMENT K.—FINE ARTS.

- | | |
|--|---|
| <p>984. Moreau, Adrien, Paris.
Shepherd.
Nozal, Alexandre, Paris.</p> <p>985. Moonlight.</p> <p>986. Ice Gorge in the Seine.</p> | <p>987. The Sea at Etretat.
Rosset-Granger, Edouard, Paris.</p> <p>988. Nocturne.
Tissot, James, Paris.</p> <p>989. Portrait of Miss C.</p> |
|--|---|

GERMANY.

GROUP 139.

Sculpture.

- | | |
|---|--|
| <p>Baumbach, Max, Berlin.</p> <p>1. Siesta.</p> <p>2. Violin Player and His Love.
Baerwaldt, Rob., Berlin</p> <p>3. Emperor William I.</p> <p>4. Emperor William I. (Loaned by the Royal Academy of Berlin.)
Begas, Prof. Reinhold, Berlin.</p> <p>5. Bust of "Menzel." (Marble.)</p> <p>6. Bust of "Moltke." (Marble.) (Loaned by the National Gallery of Berlin.)
Begas, Prof. Carl, Berlin.</p> <p>7. Sisters. (Marble.)</p> <p>8. Faun and the Infant Bachus. (Marble.) (Loaned by the National Gallery of Berlin.)
Bergmeier, C. A., Steglitz-Berlin.</p> <p>9. Table-service. (Bronze.)
Bernewitz, C., Berlin.</p> <p>10. You Must Dance. (Bronze.)</p> <p>11. Psyche. (Bronze.)
Bräuer, Peter, Berlin.</p> <p>12. Spring. (Bronze.)
Brossman, Prof. Gustav, Dresden.</p> <p>13. Fettered Psyche. (Marble.)</p> <p>14. Battle of Centaurs. (Marble-relief.)
Brütt, Ad., Berlin.</p> <p>15. "Eve." (Marble.) (Loaned by the National Gallery of Berlin.)</p> <p>16. "Saved." (Bronze.)</p> <p>17. "Phryne." (Bronze.)</p> <p>18. "Bathing Girl." (Bronze.)
Calandrelli, Prof. A., Berlin.</p> <p>19. Nymph. (Bronze.)
Dobbertin, O., Hamburg.</p> <p>20. Resting Boy. (Marble.)
Dorn, Carl, Berlin.</p> <p>21. Idealism. (Bronze.)</p> <p>22. Materialism. (Bronze.)</p> <p>23. Fountain Figure; Swan Group. (Bronze.)
Eberlein, Prof. G., Berlin.</p> <p>24. Thorn-puller. (Marble.) (Loaned by the National Gallery of Berlin.)
Elster, G., Braunschweig.</p> <p>25. Ave Maria. (Terra cotta.)</p> <p>26. Saint John. (Terra cotta.)
Epler, Heinr, Dresden-A.</p> <p>27. Gleaner. (Marble.)
Heidepriem, T., Berlin.</p> <p>28. Sleep. (Marble.)</p> <p>29. In the Shooting Stand. (Zinc cast.)</p> <p>30. As the Kennel of a Badger. (Zinc cast.)
Herter, Prof. E., Berlin.</p> <p>31. A Fish Rarely to be Met With. (Bronze.)</p> <p>32. In the Depth of the Sea. (Plaster.)</p> | <p>33. Moses Destroying the Tables of Law. (Oakwood.)
Hilgers, Prof. C., Berlin.</p> <p>34. Christ Healing the Sick Ones. (Plaster-relief.)</p> <p>35. Christ Healing the Daughter of Iairus. (Plaster-relief.)</p> <p>36. Small Model of the Dusseldorf Warriors—Monument. (Bronze.)
Hirt, Prof. Joh., Munich.</p> <p>37. Andromeda. (Marble.)
Hischen, Ernst, Berlin.</p> <p>38. Statuette; Man with Dogs. (Bronze.)
Hölbe, Rud., Dresden-A.</p> <p>39. The Ratcatcher of Hamelo. (Bronze.)
Hultzsch, Prof. Hermann, Dresden.</p> <p>40. Echo. (Bronze.)
Hundrieser, Emil, Charlottenburg.</p> <p>41. Peace. (Plaster.)
Geiger, N., Berlin, Wilmersdorf.</p> <p>42. Labour. (Plaster.)
Geiger, Mrs. H., Berlin, Wilmersdorf.</p> <p>43. Bust of the Madonna. (Marble.)
Glaufügel, Otto, at present at Rome.</p> <p>44. Italian Fisher Boy. (Zinc cast.)</p> <p>45. Italian Oyster Dealer. (Bronze.)
Götz, T., Berlin, Schöneberg.</p> <p>46. Balancing Boy. (Bronze.)</p> <p>47. Female Water Drawer. (Bronze.)</p> <p>48. Boy with Hoop. (Zinc cast.)
Kahle, Miss Anna von, Berlin.</p> <p>49. Sleeping Child. (Marble.)</p> <p>50. Bacchus. (Majolica.)
Kiesewalter, H., Berlin.</p> <p>51. Horse Statuette. (Bronze.)
Klein, Max, Berlin.</p> <p>52. Lady's Head. (Marble.)</p> <p>53. Deathly Embrace—A Man Struggling With a Lion. (Bronze group.)
Kruse, Max, Berlin.</p> <p>54. The Messenger From Marathon. (Bronze.)</p> <p>55. Marble bust.</p> <p>56. Portrait of Miss B.
Kruse, Bruno, Berlin.</p> <p>57. Head of a Nymph. (Marble.)</p> <p>58. Prince Bismarck. (Bronze.)</p> <p>59. Field-Marshal von Moltke. (Bronze.)
Landsberg, Max, Berlin.</p> <p>60. English Thoroughbred. (Bronze.)</p> <p>61. English Thoroughbred. (Bronze.)</p> <p>62. Cow from the Wilster-marsh. (Bronze.)
Lepcke, Ferd., Berlin.</p> <p>63. Listener. (Marble.)</p> <p>64. Listener. (Bronze.)
Lock, Michel, Berlin.</p> <p>65. Spartacus. (Plaster.)</p> |
|---|--|

GERMANY.

- Manthe, A. M., Berlin.**
 66. Emperors William I and Frederic III. (Zinc-cast group.)
Maison, Rud., Munich.
 67. Negro Riding on an Ass. (Plaster.)
Moser, Prof. Jul, Berlin.
 68. Emperor William II. (Bronze-statuettes.)
Musch, Leo, Dusseldorf.
 69. Faith. (Marble tomb-figure.)
Nowak, Leopold, Hanau.
 70. Venus and Amor. (Bronze.)
 71. Female Bacchant and the Infant Bacchus. (Bronze-cast.)
Oches, Franz, Berlin, Wilmersdorf.
 72. Emperor William I. (Marble.)
 73. Emperor William II. (Marble.)
Ockelmann, Robert, Dresden.
 74. Girl Putting on Sandals. (Bronze.)
 75. Returning Young Fisherman. (Bronze.)
 76. Female Bacchant. (Bronze.)
Ohmann, R., Berlin.
 77. Female Bust. (Marble.)
Otto, Prof. Paul, Berlin.
 78. Vesta Priest. (Loaned by the National Gallery of Berlin.)
Ernst, Paul, Dresden.
 79. Fastening Sandals. (Marble.)
Piper, Carl, Berlin.
 80. Bust of a Pilot. (Bronze.)
Riesch, Otto, Berlin.
 81. Song of Praise. (Bronze.)
 82. Mignon. (Marble.)
 83. Victory. (Bronze.)
 84. Grown Poor. (Bronze.)
Rosse, Franz, Berlin.
 85. Lili. (Marble.)
Rumpf, Carl, Frankfurt-on-the-Main.
 86. Adam and Eve. (Bronze.)
Schott, Walter, Berlin.
 87. Bust of the late Professor de Alma. (Plaster.)
 88. Female Figure. (Marble.)
 89. Bust of a Child. (Marble.)
 90. Bust of my Wife. (Plaster.)
 91. Developed. (Plaster.)
 92. Bust of Emperor William II. (Plaster.)
 93. Bust of Prince Stolborg-Wernigerode. (Plaster.)
Schulz, Prof. Moritz, Berlin.
 94. Modern Roman Lady. (Marble.)
Siemering, Prof. R., Berlin.
 95. Victory. (Bronze.)
 96. Statue of Bismarck on Horseback. (Plaster.)
 97. Statue of Moltke on Horseback. (Plaster.)
 98. Statue of Crown Prince Frederic. (Plaster.)
 (The last three statues are loaned by the National Gallery of Berlin.)
Sommer, Prof. August, Rome.
 99. Old Harry Catching Flies. (Bronze.)
Starck, Constantin, Berlin.
 100. Boy Playing Flute. (Bronze.)
Steinemann, H., Berlin.
 101. A City Sergeant. (Bronze.)
 102. Ancient German. (Bronze.)
 103. Ancient Roman. (Bronze.)
Stuck, Franz, Munich.
 104. Athlete. (Bronze.)
Toberentz, R., Berlin.
 105. Resting Herdsman. (Bronze.) (Loaned by the National Gallery of Berlin.)
Tubbecke, Franz, Berlin.
 106. Drinking Boy. (Bronze.)
Turpe, Paul, Berlin.
 107. Laughing Boy. (Marble.)
 108. Boy and Cat. (Bronze.)
Uechtritz, Cunno von, Berlin.
 109. Morning. } Bronze Chandeliers for
 110. Evening. } Electric Lighting.
 111. Two Wall Figures in Bronze for Electric Lighting.
 112. Head of a Girl. (Marble.)
Unger, Max, Berlin.
 113. Fisherman. (Zinc cast.)
Uphnes, T., Berlin.
 114. Archer. (Bronze.)
Vordermeyer, M., Berlin.
 115. Domestic Industry. (Oak wood.)
Wagmüller, Mich., Munich.
 116. Portrait of Justus von Liebig. (Plaster.)
Wenck, E., Berlin.
 117. Amorous Faun. (Bronze.)
Wind, Joh., Munich.
 118. Female Juggler. (Bronze.)
- GROUP 140.**
Paintings in Oil.
Achenbach, Prof. Oswald, Dusseldorf.
 119. Scene near Naples (Moonlight).
Adam, Franz, Munich.
 120. The Battle of Orleans.
Adam, Julius, Munich.
 121. High School.
Alberts, J., Berlin.
 122. "The Captain's Wife."
 123. "A Confession on Hallig Oland."
 124. "Alone."
Albrecht, C., Hamburg.
 125. An Evening Song.
Andorff, Paul, Hanau.
 126. A Village in the Spessart.
Andersen-Lundby, Anders, Munich.
 127. Winter Evening.
Arnold, Prof. Herm., Weimar.
 128. My Little Mother.
Arnz, Albert, Dusseldorf.
 129. Still Life; Morass Birds.
Arp, Karl, Kiel.
 130. A Bridge in Saalfeldt.
Asperger, Max, Weimar.
 131. A Bridge at Berka.
Bachmann, Hans, Dusseldorf.
 132. The Morning After the Wedding (Switzerland).
Baisch, Prof. Herm., Karlsruhe.
 133. Spring Day in Bavaria.
 134. Sheep in the Sand Dunes.
Baur, Prof. Albert, Dusseldorf.
 135. The Martyr's Daughter (scene from the Christian prosecution under the reign of Diocletian).
Bantzer, Carl N., Dresden, Strchlen.
 136. Spring Day.
 137. In the Garden.
Beeck, Theodore, Dusseldorf, v-d.
 138. A Cigarette Manufactory.
 139. On the Heights.
Becker, Prof. Carl, Berlin.
 140. Venetian Doge Festivity. (Loaned by National Gallery of Berlin.)
Becker, Carl, Berlin.
 141. Vedette.
Becker-Gundahl, Munich.
 142. Forsaken.

DEPARTMENT K.—FINE ARTS.

- Behmer, Herm., Weimar.
 143. Reconvalescent.
 Behrend, Friedr., Karlsruhe.
 144. Evening in Lithuania.
 Bergmann, Jul., Karlsruhe.
 145. Under the Willow Trees.
 146. Returning Home.
 147. Cziko's (Hungarian Shepherd).
 Bernuth, E. von, Dusseldorf.
 148. A Cañon.
 Biedermann, Ernst, Karlsruhe.
 149. Falling Leaves.
 Biedermann-Arendts, Miss Hermine,
 Freising a-Graben.
 150. The First Booty.
 Blau, Miss Tina, Munich.
 151. Autumn.
 152. Yard in St. Veit near Vienna.
 Block, Jos., Munich.
 153. In the Twilight.
 Bluhm, Oscar, Karlsruhe.
 154. Reveries.
 Blume, Ed., Munich.
 155. Candle Light.
 Bockelmann, Ch. Ludw., Karlsruhe.
 156. The Village on Fire.
 Boddien, G. von, Kl. Zschochwitz, near
 Niedersedlitz.
 157. The Battle is Over.
 158. Pandures Reconnoitering.
 Bohrdt, Hans, Berlin.
 159. Hamburg Pilotes.
 Bombach, W., Berlin.
 160. Tunisian Town.
 Bombach, F., Berlin.
 161. Railroad Crossing.
 Borchardt, F., Dresden.
 162. Uncle Testator.
 Bohme, Karl, Karlsruhe.
 163. View from the Lighthouse at Skom-
 vaer.
 Berkemeier, Ludolf, Weimar.
 164. After the Shower (Dutch Landscape).
 Bracht, Prof. E., Berlin.
 165. Mount Sinai.
 166. Before the Walls of Jerusalem.
 Braith, Prof. Anton, Munich.
 167. A Fresh Drink.
 168. The Pets of the Peasant's Wife. (Loaned
 by the State of Bavaria.)
 Brandt, Prof. T. V., Munich.
 169. The Sudden Attack. (Loaned by the
 State of Bavaria.)
 Brandt, F., Rome.
 170. Tivoli near Rome.
 171. The Dome at Tivoli.
 Brausewetter, Prof. O.
 172. Our Saviour.
 Bredt, Ferd. Max, Munich.
 173. Two Gazelles.
 174. A Sudanese Girl.
 Brendel, Prof. A. M., Weimar.
 175. Tug Horses.
 Brütt, Ferdinand, Dusseldorf.
 176. In the Picture Gallery.
 Bunke, Franz, Weimar.
 177. Brick Manufactory in Mecklenburg.
 178. Before the Townlet.
 Buttersack, Bernh., Munich
 179. A Nice Day.
 Des Condres, Adolf, Karlsruhe.
 180. Brook with Alders.
 Cramer, Miss Helene, Hamburg.
 181. Clematis.
 Cramer, Miss Molly, Hamburg.
 182. Peaches.
 Crola, Prof. Hugo, Dusseldorf.
 183. Industrious Sisters.
 Dahl, Hans, Berlin.
 184. Sunday Morning in Norway. (Time
 for Church Going.)
 Daelen, Ed., Dusseldorf.
 185. High Flown Madness.
 Defregger, Prof. Franz v., Munich.
 186. Sunday Quietness.
 187. Rokibär.
 188. Dancing Begins.
 Deiters, H., Dusseldorf.
 189. At the Brook.
 Delug, A., Munich.
 190. In the Month of March.
 Dettmann, L., Berlin.
 191. Genesis iii.
 ("Thorns and thistles shalt thy field
 bring forth to thee—in the sweat of
 thy face shall thou eat bread till
 thou returnest unto the ground, for,
 out of it wast thou taken.")
 Dieffenbacher, Aug., Munich.
 192. A Heartrending Return.
 Dirks, Andreas, Weimar.
 193. In the Harbor.
 Douzette, L., Berlin.
 194. Moonlight Night in Spring.
 195. Autumn Evening.
 Ducker, Prof. Eugen, Dusseldorf.
 196. Summer Evening.
 Eberle, Ad., Munich.
 197. Boarders.
 Eckenbrecher, Th. von, Berlin.
 198. Norwegian Waterfall.
 Eckenaes, John, Munich.
 199. Fishing in Norway.
 200. A Bridge in Norway.
 Ehrentraut, Prof. J., Berlin.
 201. A Fleeced One.
 Eichfeld, Herm., Munich.
 202. Morning in August.
 Eschke, Prof. Herm., Berlin.
 203. The Swedish Coast at Toreko.
 Eschwege, E. von, Weimar.
 204. Early Spring.
 Esser, Theodor, Karlsruhe.
 205. Landscape.
 Fahrbach, C. L., Dusseldorf.
 206. A Black Forest Mill.
 Falat, J., Berlin.
 207. Bear Hunting.
 (Loaned by the National Gallery of
 Berlin.)
 Feldmann, Louis, Dusseldorf.
 208. Incredulous Thomas.
 Flad, G., Munich.
 209. A Garden.
 Flamm, Albert, Dusseldorf.
 210. Italian Women.
 Fleischer, Fritz, Weimar.
 211. Old Wife and Dog.
 212. Devotion.
 Flickel, Paul, Berlin.
 213. Forest Solitude.
 Fink, Prof. Aug., Munich.
 214. Evening.
 215. Early Spring.

GERMANY.

- Fischer-Cörlin, Berlin.**
 216. Love Teases, Love Pleases.
Frenzel, Oscar, Berlin.
 217. Cattle in the Marshlands of the River Elbe.
Frey, Wilhelm, Munich.
 218. Cattle at the Brook.
Freytag-Loringhoven, M. von, Weimar.
 219. Entering the Forest.
Fricke, A., Berlin.
 220. On the Island of Rugen.
 221. On the Island of Sylt.
Friedrich, Otto, Paris.
 222. The Death of Dante.
Friese, Richard, Berlin.
 223. Lions in the Lagoon.
Gable, Prof. Alois, Munich.
 224. Inoculators' Room. (Loaned by the State of Bavaria.)
 225. Brauschenke (Bavarian Inn).
Geertz, Julius, Dusseldorf.
 226. Morning Prayer.
 227. The Little Freebooter.
Edle von Geiger, Miss Fanny, Munich.
 228. Landscape—Spring.
Gleichen Russwurm, L. von, Weimar.
 229. A Promenade.
Genzmer, B., Berlin.
 230. The Village Playgrounds.
Grethe, Prof. Carlos, Karlsruhe.
 231. The Spoiled Soup.
 232. The Fisher's Darling.
 233. At the Helm.
 234. The Last Chance.
Grobe, German, Dusseldorf.
 235. German Landscape.
Grützner, Prof. Ed., Munich.
 236. Monks at Supper.
Gude, Prof. Hans, Berlin.
 237. Breakers.
Gunther-Naumburg, Berlin, Charlottenburg.
 238. The Street Unter-den-Linden in Berlin.
Gunther, Erwin, Dusseldorf.
 239. Strand near Scheweningen.
Gysis, Prof. Nicol, Munich.
 240. Carnival in Greece.
Hagn, Rich. von, Dresden.
 241. In the Vestry of St. Marco at Venice.
Hagen, Prof. Theodor, Weimar.
 242. Cornfield.
Hamacher, Willy, Berlin.
 243. Rocky Coast.
Hammer, Erich, Weimar.
 244. Grandmother's Pet.
Harrach, Prof. F., Count von, Tiefhartmannsdorf, near Schonau.
 245. Fallen Down from the Precipice. (Loaned by the National Gallery of Berlin.)
Harburger, Edm., Munich.
 246. At the Spring.
Hasemann, Wilh., Gutach Amt Wolfach.
 247. He is Coming.
 248. Girl from the Black Forest.
Hartmann, Karl, Munich.
 249. Autumn Evening.
 250. Apple Fight.
Hausmann, E., Wilmersdorf, Berlin.
 251. Homeless.
Heichert, Otto, Dusseldorf.
 252. Theodor Körner After the Sudden Attack at Kitzten.
Heilmann, Maz, Reussendorf, near Waldenburg in Silesia.
 253. Silesian Village Road in November.
Heimes, Heinr., Dusseldorf.
 254. Sunset (North Sea).
Hellweg, Rudolph, Karlsruhe.
 255. Northern Shores.
 256. Ruins of the Old Hanseatic Town Wisby.
Henseler, Prof. E., Berlin.
 257. The Harvest Repast.
 258. Evening.
Hermes, J., Berlin.
 259. Twilight.
Herrmann, Hans, Berlin.
 260. The Fishmart in Amsterdam.
Herrmann, Hienr., Dusseldorf.
 261. Dortrecht (Holland).
Hertel, Prof. Alb., Berlin.
 262. Dante in the Alps.
Herterich, Prof. Ludw., Munich.
 263. Saint George.
Herzog, Lewis, Dusseldorf.
 264. A Morning in October.
Heyle, Philipp H. G., Frankfort-on-the-Main.
 265. Before the Dissection.
Heyser, F., Hurlzburg.
 266. Portrait of Professor Joachim.
Hildebrand, Prof. E., Berlin.
 267. Queen Louise. (Loaned by the National Gallery of Berlin.)
 268. Tullia.
Hirschler-Kunwald, Miss E., Weimar.
 269. My Studio.
Hirt du Frènes, Munich.
 270. Portrait. (Owned by Wm. Chase, Esq., New York.)
 271. Head of a Girl.
Hochhaus, C., Berlin.
 272. Navy-yard (Constructing H. M. S. Oldenburg).
Hoecker, Prof. Paul, Munich.
 273. The Nun.
 274. On Board H. M. S. Deutschland.
Hofer, Gottfr., Hamburg.
 275. The Dolomites in the Tyrol.
Hoff, Karl, Karlsruhe.
 276. Children from the Black Forest.
Hoffmann-Fallersleben, F., Berlin.
 277. Landscape—Autumn Day.
Holmberg, Prof. Aug., Munich.
 278. "Pensive."
 279. "Genre."
Hölzel, Ad., Dachau, near Munich.
 280. Domestic Devotion. (Loaned by the State of Bavaria.)
Hummel, Theod., Munich.
 281. The Deathbed of the Mother.
Huisken, Herm, Karlsruhe.
 282. My Pet Dog.
Hünter, Prof. Emil, Dusseldorf.
 283. Billeting Troops.
Jacobides, Prof. Georg, Munich.
 284. Afflictions.
 285. Portrait.
Jrmer, Carl, Dusseldorf.
 286. Motive from the Island of Sylt.
Janssen, Prof. Peter, Dusseldorf.

DEPARTMENT K.—FINE ARTS.

287. Portrait of the late Inspector Holt-
hausen. (Loaned by the govern-
ment).
**Kalkreuth, Prof. L. Count von, Hock-
richt, near Wanssen, Silesia.**
288. Portrait (Uncle Andres).
**Hermuth, Mrs. Margarethe, Kallmor-
gen, Karlsruhe.**
289. China Asters.
Kallmorgen, Prof. Fr., Karlsruhe.
290. Our Old Emperor.
291. Good Neighborhood.
292. Beginning of Spring.
293. Happy Childhood.
Kampmann, Gustav, Karlsruhe.
294. Falling Leaves.
295. The Amber Coast (Baltic).
Kauffmann, Hugo, Munich.
296. A Snuffer.
297. Girl's Head.
Kaulbach, Prof. Herm, Munich.
298. The Storyteller.
Kehr, Karl, Karlsruhe.
299. Evening.
**Keller Reutlingen, Paul Wilh.,
Munich.**
300. Summer Landscape. (Loaned by the
State of Bavaria.)
301. Summer.
Keller, Prof. Ferd., Karlsruhe.
302. Apotheosis. (Loaned by the National
Gallery of Berlin.)
Keitel, O., Muhlberg, Karlsruhe.
303. The Market Is Over.
Klein-Chevalier, Dusseldorf.
304. Inauguration of the Niederwald Mon-
ument in the Presence of Emperor
William I.
Kinsley, Nelson G., Karlsruhe.
305. Winter.
306. A Noble Sire.
Knabl, Karl, Munich.
307. Rafting on the River Tsar.
308. At Dawn.
Knaus, Prof. L., Berlin.
309. Portrait of Mounnsen. (Loaned by the
National Gallery of Berlin.)
310. Portrait of Hemholtz. (Loaned by
the National Gallery of Berlin.)
311. The Fight Behind the Fence.
König, H., Munich.
312. At the Rivulet.
313. Going Home. (Loaned by the State
of Bavaria.)
Körner, Ernst, Berlin.
314. Gebel Schech, Haridi on the Nile.
Koner, Prof. Max, Berlin.
315. Portrait of His Majesty, Emperor
William II.
**Kornbeck, Julius, Castle of Oberen-
singen, near Mirtingen.**
316. In the Village.
Köster, Alexander, Karlsruhe.
317. Sunday Morning.
Kromberger, Carl, Munich.
318. A Lucky Man.
319. An Amusing Story.
Kröner, Prof. Christ, Dusseldorf.
320. The Troublesome Guest.
Kubierschky, Erich, Munich.
321. Spring Landscape near Munich.
322. "Still life."
323. "Still life."
Kühl, Prof. Gotth, Munich.
324. Eine feste Burg ist unser Gott (a
sure stronghold is God). (German
song.)
Kurz-Gallenstein, August Munich
325. Sunday.
Langhammer, Arthur, Munich.
326. A Bite and a Sup. (Loaned by the
State of Bavaria.)
Lasch, Herm., Dusseldorf.
327. Evening.
Laupheimer, Anton, Munich.
328. St. Lukes.
Lehmann, Wilhelm, Karlsruhe.
329. Spring.
Lenbach, Prof. von, Munich.
330. Portrait of Prince Bismarck.
331. Portrait of Pope Leo. (Both loaned
by the State of Bavaria.)
Leistikow, Walther, Berlin.
332. Brickworks.
333. Ave Maria.
Lessing, H., Berlin.
334. The Sick Bed.
Ley, Miss Sophie, Karlsruhe.
335. Flowers.
Liebermann, Max, Berlin.
336. Dutch Village Road.
337. The Flax Barn.
Liesegang, H., Dusseldorf.
338. Mills at Dartrecht.
339. Country Road.
Lindenschmidt, Prof. W., Munich.
340. Anne Boleyn.
Linderum, Rich., Munich.
341. Deliberation.
Ludwig, Prof. Carl, Berlin.
342. Spring in the Genitz Valley in the Tirol.
343. Taubergrund in Franconia.
Malchin, Prof. Carl, Schwerin.
344. North German Landscape. (Loaned
by the National Gallery of Berlin.)
Marx, Gust, Dusseldorf.
345. A Party.
Massau, Edm., Dusseldorf.
346. A Spring Day.
347. The Standard Bearer.
Lerche, St. Vincent, Dusseldorf.
348. The Sign-Board Painter.
Matiegreck, Jos., Munich.
349. In the Waiting Room.
Meckel, Ad. v., Berlin.
350. Finding the Slain (Nubian Desert).
Menzel, Prof. A., Berlin.
351. The Rolling Mill. (Loaned by the
National Gallery of Berlin.)
Merkel, Max, Weimar.
352. The Convent Garden.
353. Motive from Old Weimar.
Metzener, Alfred, Dusseldorf.
354. Tyrolese Landscape.
Meyer, Kunz, Munich.
355. A Legend.
Meyer, Prof. Claus, Karlsruhe.
356. The Old Fisherman.
Meyer-Basel, Karl Theodor, Munich.
357. Spring.
Meyer-Mainz, Paul, Munich.
358. A Matinee.
Meyerheim, Prof. Paul, Berlin.
359. A Menagerie. (Loaned by the Na-
tional Gallery of Berlin.)

GERMANY.

360. Cows in the Alps.
Meyer, Prof. Hans, Berlin.
361. Evening.
Max, Prof. Gabriel, Munich.
362. Katharina Emerich. (Loaned by the State of Bavaria.)
363. Visions.
Munsch, Josef, Munich.
364. The Conference.
Muhlig, Hugo, Dusseldorf.
365. Winter Day in the Eifel.
Müller, Carl W., Dresden-A.
366. German Forest.
Müller, P. P., Munich.
367. Beachwood in Autumn.
368. A Mele. (Loaned by the State of Bavaria.)
Müller, Kurzweily, D. K., Berlin.
369. Winter Landscape.
370. After the Thunderstorm.
371. Breakers (Swedish Coast).
Nabert, Wilhelm, Dusseldorf.
372. Landscape from the Harz (Valley of the Ocker).
Neff, Friedr, Karlsruhe.
373. Vanity Fair.
Nelson, Ernst, Berlin.
374. Hard Times.
Neuhaus, Fritz, Dusseldorf.
375. The Little Tyrant.
Normann, A., Berlin.
376. Summer Night (Norway).
377. Narøfjord (Norway).
Oenicke, R., Blrine.
378. Palmwood in Paraguay.
Oehmichen, Hugo, Dusseldorf.
379. The Sisters.
380. Alone.
Olde, Hans, Seekamp.
381. Before Sunrise.
Oppler, Ernst, Munich.
382. Revery. (Loaned by H. R. H. the Prime Regent Lintpold of Bavaria.)
Palmier, Charles, Munich.
383. Autumn.
Papperitz, Georg, Munich.
384. Salome, the Daughter of Herodias.
Parlaghy, Mrs. Vilma, Berlin.
385. Portrait of Kossuth.
Petersen, Angeln, Dusseldorf.
386. At Sunset.
387. On the Beach (Holland).
Petersen, Flensburg, Dusseldorf.
388. Winter Evening.
Pietschmann, Max, Dresden N.
389. Polyphemus Fishing.
Plass, Ernst, Munich.
390. North Sea Strand.
391. Fishermen on the Baltic.
Pohle, Herm., Dusseldorf.
392. Castle in the Parks of Benrath.
Possin, Rud, Charlottenburg, Berlin.
393. Devotion.
Pötzsch, Paul, Dresden-A.
394. Italian Ropers.
395. Revery.
Plühr, Heinr., Weimar.
396. In the Sunshine.
Rasch, Otto, Weimar.
397. Council Chamber at Luneburg.
Rasmussen, Georg, Ant., Dusseldorf.
398. The Sognefjord.
399. Peace. (Loaned by the National Gallery of Berlin.)
Ravenstein, Paul von, Karlsruhe.
400. Umbrella Menders in Tivoli.
401. Serenade on the Canal Grande at Venice.
Riess, Paul, Weimar.
402. Norwegian Coast.
403. After the Storm (Moonlight).
Ritter, Wilh. G., Dresden-A.
404. Spring.
Ritter, Prof. Caspar, Karlsruhe.
405. Consolation by the Song.
406. After Bathing.
Rocholl The, Dusseldorf.
407. You Must First Catch a Man Before You Hang Him.
408. Avant-garde Fighting.
Röchling, Carl, Berlin.
409. A Man But Still a Baby.
Rodeck, Carl, Hamburg.
410. Evening in the Woods.
Roeber, Fritz, Dusseldorf.
411. The Holy Family.
412. King Wenzel Raging. (King Wenzel went on horseback one day through the street of Prague, accompanied by a hangman. Everybody whom he met and who displeased him was executed.)
Rohlf, Christian, Weimar.
413. The Sawmill.
Romann, Max, Karlsruhe.
414. Street near Tivoli.
Rosen, Jan, Munich.
415. The Battle of Stoezek, 1831.
Rouband, Prof. Franz, Munich.
416. Hay Time.
417. Prayer Before the Battle.
Rummelsbacher, J., Berlin.
418. The Tschapit Rivulet in the Tyrol.
Rusch, Dietrich, Weimar.
419. Interior.
420. North German Kitchen.
421. Landscape.
Ruths, Val., Hamburg.
422. Twilight. (Loaned by the National Gallery of Berlin.)
Saltzmann, Prof. Carl, Neubabelsberg.
423. Emperor William II Whaling on Board the Duncan Gray.
Schachinger, Gabr., Munich.
424. "In Vain."
Schaefer, M., Berlin.
425. Please Come.
Schauss, Prof. F., Berlin.
426. "Elegy."
Scherres, Prof. C., Berlin.
427. "Inundation." (Loaned by the National Gallery of Berlin.)
Scherres, Alfred, Karlsruhe.
428. Winter.
Schennis, F. von, Dusseldorf.
429. The Parks of Versailles.
Schenker, Jagues, Dresden-A.
430. At the River Ems.
Scheurenberg, Prof. J., Berlin.
431. Portrait of Teller. (Loaned by the National Gallery of Berlin.)
Schlabitz, A., Berlin.
432. "The Blind Ones in the Church."

DEPARTMENT K.—FINE ARTS.

433. "Morning Song."
Schleich, H., Berlin.
434. Braselet Bay (South Waies).
Schleich, Robert, Munich.
435. The October Festivity in Munich.
436. On the Highroad.
Schickhardt, Karl, Stuttgart.
437. In Suebia.
Schmidt, Friedr. M., Weimar.
438. Autumn.
439. Old Bridge in Italy.
Schmidt, Hans W., Weimar.
440. A Parade in Presence of the Emperor.
Schmidt, Prof. Max, Köigsberg, i-Pr.
441. Landscape from the River Spree. (Loaned by the National Gallery of Berlin.)
Schmitgen, Georg, Berlin.
442. Evening.
Schnars-Alguist, H., Berlin.
443. "S. S. Paris."
444. "Narrow Escape."
Schnitzler, Fritz, Dusseldorf.
445. Sheep Bathing.
Schönleber, Prof. Gust, Karlsruhe.
446. High Tide (Clovelly).
447. In the Lagoons of Venice.
Schönchen, Leopold, Munich.
448. In March.
Scholz, Richard, Frankfort-on-the Main.
449. Fallen Down from the Precipice.
Scholtz, Prof. Julius, Dresden-A.
450. A Cavarian Song (Schnadahupfl).
451. Ave Maria.
Schrödl, Norbert, Frankfort-on-the Main.
452. German Peasants' Vehicle.
Schröter, Wilh., Karlsruhe.
453. Summer Landscape.
Schuch, Prof. Werner, Kliecken near Coswig.
454. Emperor William II.
455. Parade.
Schulze-Naumburg, Paul, Karlsruhe.
456. Resignation.
Schutlze, Carl, Dusseldorf.
457. Heath Landscape.
Schuler, Max, Frankfort-on-the Main.
458. Portrait of Pablo de Sarasate.
Schür, Theodor, Dusseldorf.
459. Winter Landscape (Moonlight).
Schivabe, E., Dusseldorf.
460. Cemetery.
Schweitzer, Ad., Dusseldorf.
461. Wintry Day in Germany.
Seel, Ad., Dusseldorf.
462. Arabian Yard in Cairo. (Loaned by the National Gallery of Berlin.)
Seiler, Prof. Carl, Munich.
463. The Sailor of Count Bröhl.
Leitz, Prof. Ant., Munich.
464. Music.
Seyppel, C. M., Dusseldorf.
465. A Lumber-chamber of the Convent.
466. In the Streets.
Simm, Franz, Munich.
467. The Pride of the Family.
468. Birds of Bad Omen.
- Skarbina, Prof. Franz, Berlin.**
469. Bitter Words.
470. A New Book.
Sonderland, Fritz, Dusseldorf.
471. In the Knitting-school.
Smith, Prof. Carl Frithjof, Weimar.
472. Portrait of the Norwegian poet, Henrik Ibsen.
473. Children in the Nursery Garden.
Staats, Miss Gertrud, Breslau.
474. Before the Gate.
Stabli, Adolf, Munich.
475. Landscape from Upper Bavaria.
Stadler, Miss Toni, Chaim near Nymphenburg Munich.
476. Landscape.
Stahl, Fr., Berlin.
477. Cemetery in Winter. (Like the leaves in the woods so are generations of mankind—one grows, the other is going.)
Stahlschmidt, Max, Weimar.
478. The Mill-Garden.
Steinmetz, Fritz, Munich.
479. A "Solo."
Stetten, Carl von, Paris.
480. Italians in Paris.
481. Portrait of the Artist C.
Stockmeyer, Karl, Malsch Amt Ettlingen.
482. And St. Peter Went Away "And Wept Bitterly."
Stvecker, Miss Constanze, Munich.
483. My Sick Little Cat.
Stromeyer, Miss Helene, Karlsruhe.
484. A Wreath of Roses.
Strützel, Otto, Munich.
485. On the Heath.
486. A Sunny Day in March.
Stuck, Franz, Munich.
487. Pieta.
Sturm, F., Berlin.
488. Wreck Waiting for a Pilot.
Sturtzkopf, Franz, Weimar.
489. The Cooper's Workshop.
Spangenberg, L., Berlin.
490. The Valley of the Engadin.
Speyer, Christian, Munich.
491. The Parliamentair.
Spielter, C., Charlottenburg.
492. Shocking.
Spring, Alfons, Munich.
493. Fisherman's Home.
494. The New Hymn.
Thedy, Prof. Max, Weimar.
495. At the Spring.
496. Spring.
Thierbach, Rich., Stolberg.
497. Landscape (Evening).
Thumann, Prof. Paul, Berlin.
498. Psyche.
Truebner, Wilh., Munich.
499. Potato Field.
500. The First Trial.
Tübbecke, Paul, Weimar.
501. Pottery Market in Weimar.
Türcke, Rud. v., Dresden-A.
502. Landscape from the Riviera near Mentone.
Uhde, Prof. Fritz von, Munich.
503. The Announcement to the Shepherds.
504. Christmas Evening.

GERMANY.

- Ulrich, F., Berlin.
 505. Wild Boars Challenging.
 Vautier, Prof. Benjamin, Dusseldorf.
 506. At the Sick Bed. (Loaned by the National Gallery of Berlin.)
 Velten, Wilhelm, Munich.
 507. Out Guard.
 508. Courier.
 Völcker, Hans, Berlin.
 509. Old Ferry near Stratsund.
 Volkmann, Hans von, Karlsruhe.
 510. Sheep Walking Home.
 511. Autumn.
 512. Going to the Fair.
 513. The Shepherd's Rest.
 514. The Kyll Valley near Geroldstein.
 Volz, Wilhelm, Munich.
 515. Maria.
 Vorgang, Paul, Berlin.
 516. After the Storm.
 517. Evening at the Lake.
 Warthmüller, R., Berlin.
 518. Evening (An Idyll).
 Wansleben, Arthur, Dusseldorf.
 519. Landscape (Swamp).
 Weichberger, Eduard, Weimar.
 520. Summer Evening.
 521. Forest-Pond.
 Weishaupt, Victor, Munich.
 522. Mount Orter.
 Wenglein, Prof. Josef, Munich.
 523. Chalkstone Gatherers in the River Tsar. (Loaned by the State of Bavaria.)
 Wentscher, J., Berlin.
 524. Baltic Coast (Rügen).
 525. Surf on the Baltic Coast.
 Werner, Prof. A. von, Berlin.
 526. The Congress of Berlin.
 Werner, Prof. Fritz, Berlin.
 527. Female Sutler.
 Wessel, Ludwig, Dusseldorf.
 528. Inquiring Prebendarist.
 Wielandt, Manuel, Karlsruhe.
 529. Italian Coast Scenery.
 530. Summer Day at the Riviera.
 Willroider, Prof. Ludw., Munich.
 531. Landscape from Upper Italy.
 Wimmer, Rud., Berlin.
 532. Portrait of His Majesty, Emperor William II.
 Wodrinowski, Vincenz v., Munich.
 533. Model Market in the Academy.
 Wopfner, Prof. Josef, Munich.
 534. Jack Remains Home.
 Wywiorski, Michel G., Munich.
 535. Black-cock Hunting in Lithuania.
 Zimmermann, Prof. Ernst, Munich.
 536. The Egg of Columbus.
 Foff, Alfred, Munich.
 537. Near Genoa.
 Tügel, Prof. Heinr., Munich.
 538. Awaiting.
 539. Hard Labour.

GROUP 141.

Paintings in Water Colors.

- Arnold, Karl, Weimar.
 540. Siesta.
 541. A Poor One and a Rich One.
 Barthel, P., Berlin.
 542. Peace.
 Bartels, Prof. Hans von, Munich.
 543. A Wave.
 544. Moonlight Night at the French Coast.
 Behmer, Herm., Weimar.
 545. Portrait of the Artist Sixt Thou.
 Bergmann, Tul., Karlsruhe.
 546. A Czikos.
 Bombach, W., Berlin.
 547. Winter in the Riviera.
 Breibach, Carl, Berlin.
 548. Fruitshop at Venice.
 549. Crosspassage at Berchtesgaden.
 550. Campiello San Barbara.
 Choulant, Th., Dresden-A.
 551. Verona.
 552. Trento.
 553. Venice.
 554. Torietto.
 Dammeier, Rud., Munich.
 555. Tyrolese Peasants During a Mass.
 Dettmann, Berlin.
 556. Spring.
 557. A Fisherman's Village (Twilight).
 558. Bridge in the Eiffel.
 559. House on the Island of Nordermy.
 560. German Forest Lake.
 561. Hay Time.
 Deiters, H., Dusseldorf.
 562. At the Mill-brook.
 563. Village in Westfalia.
 Doepler, Professor, Berlin.
 564. "The Beginning of the End." (Loaned by the National Gallery of Berlin.)
 Döring, Willy, Charlottenburg.
 565. Portrait.
 Eckenbrecher, Th. v.
 566. Street in Cairo.
 567. On the Bosphorus.
 Eitner, Ernst, Hamburg.
 568. Afternoon Sun.
 Falat, T., Berlin.
 569. Italian Triffer.
 Fehr, Conrad, Berlin.
 570. Pious Monk.
 Gleichen-Russwurn, Ludwig von, Weimar.
 571. Orchard.
 572. Autumn Landscape.
 Haber, Rudolf von, Dresden.
 573. Still Life.
 Hein, Franz, Karlsruhe.
 574. "Spring."
 575. "Sweet-tooth."
 Herrmann, Hans, Berlin.
 576. Dutch Harbor Scenery. (Loaned by the National Gallery of Berlin.)
 577. The "Lindengracht" at Amsterdam.
 578. The "Lingel" at Amsterdam.
 Hertel, Prof. Albert, Berlin.
 579. Rapollo.
 580. Gastein Nassfeld.
 581. Evening on the Nassfeld near Gastein.
 582. View from Monte Pincio.
 583. Mentone and the Campo Santo.
 584. Harbor of Mentone.
 Herzog, Lewis, Dusseldorf.
 585. On the Rhine (Lowland).
 Herwegen, V. M., Munich.
 586. The Temple of Antony.
 587. View from Mount Palatin.
 Kallmorgen, Prof. Friedr., Karlsruhe.
 588. Grandfather's Pets

DEPARTMENT K.—FINE ARTS.

- Klimsch, Prof. Eugen, Frankfort-on-the-Main.**
 589. A Fan.
Kubierschky, Erich, Munich.
 590. Spring (River Rhine).
 591. Autumn (River Rhine).
Leistikow, W., Berlin.
 592. Twilight.
 593. A Wintry Day in the Mountains.
 594. Autumn.
 595. Summer.
Looschen, Hans, Berlin.
 596. A Tavern in the Wood.
Lutteroth, Prof. Ascan, Hamburg.
 597. The Titus-arch at Rome.
 598. Mount Palatine at Rome.
 599. Cassel St. Angelo.
 600. St. Peter at Rome.
Mnnchen, Adolf, Halle a-S.
 601. In the Cloister.
 602. Potato Dumplings.
Menzel, Prof. Adolf, Berlin.
 603. A Squirrel.
 604. Tree Trunk with Bird.
 605. A Cacatoo.
 606. The Blue Aras.
 607. Chinese Women with Pheasants.
 608. Designs for a Table Set for their R.H. the Crown Prince and Crown Princess. (Loaned by the National Gallery of Berlin.)
Normann, A., Berlin.
 609. Evening (Norwegian Coast).
Pohle, Herm. Emil, Dusseldorf.
 610. Four in Hand Eloping.
Reinecke, René, Munich.
 611. In the Waiting-room (Central Station, Munich).
Rogge, Prof. Theod., Weimar.
 612. Portuguesian Coast.
Schnee, H., Berlin.
 613. Summer Morning.
Seliger, M., Berlin.
 614. Parrots.
 615. Elfs and Night-fires.
Skarbina, Prof. Franz, Berlin.
 616. Christmas Fair.
 617. Conversation. (Loaned by the National Gallery of Berlin.)
Stichart, Alexander, Dresden-Strehlen.
 618. Apparitions.
Teschendorff, Prof. E., Berlin.
 619. Old Peasant from Meran.
Völcker, Hans, Berlin.
 620. Straits of Gibraltar.
Weichberger, Eduard, Weimar.
 621. Village Garden in May.
Woltze, Prof. Berth., Weimar.
 622. A Cotquean.
- GROUP 143.**
Engravings and Etchings, Prints.
- Barenfanger, Max, Munich.**
 623. John Chambers, Physician in Ordinary to King Henry VIII of England. *Etching* after Holbein.
 624. Portrait of a Young Wife. *Wood engraving* after fy Rals.
Behmer, Herm., Weimar.
 625. Portrait of the poet Gust Kastruppe.
Berlepsch, Hans Ed von, Munich.
 626. Indian Ink Drawings.
- Böttcher, F., Steglitz, near Berlin.**
 627. The Ascension. (After von Gebhardt.)
Burger, Johann, Munich.
 628. Aurora. (After Guido Reni.)
Eilers, Prof. G., Berlin.
 629. Saint Cecil. (After Rubens.)
 630. Portrait of Joachim.
 631. Portrait of Menzel.
Erdmann, Mor., Munich.
 632. Maderno on Lake Garda.
 633. Near Bozen (Moonlight).
 634. Near Berchtesgaden.
Feldmann, W., Berlin.
 635. Evening in Westfalia.
 636. The Castle "Em."
 637. Six Drawings in Indian Ink.
Richard, Max von, Baden Baden.
 638. Three Etchings.
Heim, Heinz, Darmstadt.
 639. A Series of Studies from Life.
Horte, Max, Berlin.
 640. Columbus Scoffed by the Council of Salamanca.
Jahnke, Karl, Munich.
 641. The Death of "Renard."
Koepping, Prof. C., Berlin.
 642. Picture of an Old Man. (After Rembrandt.)
 643. Summer Idyl.
Kohnert, H., Berlin.
 644. Autumn Evening.
 645. Spring Morning.
Krauskopf, Prof. Wilh., Karlsruhe.
 646. Portrait.
 647. Landscape.
Krostewitz, F., Berlin.
 648. Landscape.
Kruger, A., Berlin.
 649. Etchings After Ancient Masters.
Meyer, Prof. Hans, Berlin.
 650. Copper Engraving (War).
 651. Six Etchings (The Dance of Death).
Meyer-Basel, Carl Theod., Munich.
 652. Original Etchings.
Oberländer, A., Munich.
 653. Two Frames With Pencil Drawings.
Platow, Johannes, Berlin.
 654. Pains Forgotten. (After Galloit.)
Art Association of the Rhinelands and Westfalia, Dusseldorf.
 655. After the Struggle.
 656. A Saloon—Tyrolian.
 657. Sketch From the Erft.
 658. A Service of Love.
 659. The Sharpers.
 660. With the Lawyer.
 661. After the Funeral.
Raab, Miss Doris, Munich.
 662. Portrait After Rembrandt.
Etcher Association, Weimar.
 663. Fourteen Etchings.
 664. Six Etchings.
Ritter, Horenz, Nurnberg.
 665. St. Laurence Church at Nurnberg.
Schultheiss, Albrecht, Munich.
 666. The Tributary Penny. (After Titian.)
Seitz, Prof. Otto, Munich.
 667. Nine Pencil Drawings.
Struck, H., Berlin-Wilmersdorf.
 668. The Village Destinies.
Stuck, Franz, Munich.
 669. Fame.

GERMANY.

Thedy, Prof. Max, Weimar.
670. Chalk Drawings.

671. Pen and Ink Drawing.
672. Red Chalk Drawing.

GREAT BRITAIN.

GROUP 139.

Sculpture.

- Allen, Charles J., London.
1. Repulsed. 820
- Bates, Harry, A. R. A., London.
2. Endymion.
3. The Story of Psyche. 820
- Brown, Miss B. A. M., Beckenham.
4. The Pearl. (Marble group.) 820
- Dressler, Conrad, London.
5. Bacchante.
6. "Mewling and Puking in the Nurse's Arms."
7. Girl Tying on Her Sandals. 820
- Drury, Alfred, London.
8. The First Reflection. 820
- Fehr, H. C., London.
9. Morning. 820
- Ford, E. Onslow, A. R. A., London.
10. Statue of Henry Irving as "Hamlet."
11. Right Hon. W. E. Gladstone.
12. General Gordon on Camel. 820
- Frampton, George, London.
13. Caprice.
14. Singing Girl.
15. St. Christina.
16. Mysteriarch. 820
- Holiday, Henry, London.
17. Sleep. 820
- John, W. Goscombe, London.
18. Morpheus.
19. Study of a Female Head. 820
- Joy, Albert Bruce, London.
20. The Marquis of Salisbury.
21. The Archbishop of Canterbury.
22. Mrs. Mary Anderson Navarro.
- Lee, Thomas Stirling, London.
23. Kiss of Dawn.
24. Bronze Medallion. 820
- Leighton, Sir Frederick, Bart., P. R. A., London.
25. Needless Alarm.
26. The Sluggard. 820
- MacLean, T. Nelson, London.
27. Tragedy.
28. Comedy.
29. La Source. 820
- Montalba, Miss Henrietta S Venice, Italy.
30. Boy Catching a Crab. 820
- Montford, Horace, London
31. Threatened Reprisals.
32. The Birth of Venus. 820
- Moore, Miss E. M., London.
33. Bust of a Child.
34. A Ruffian. 820
- Palmer, Miss Ada M., Chigwell.
35. The Pied Piper of Hamelin. 820
- Pomeroy, F. W., London.
36. Dionysius. 820
37. Giotto.
- Rhodes, Roland, Newcastle.
38. Egyptian Harpist.

39. Youth's First Recognition of Love. 820
- Swan, John M., London.
40. Tiger.
41. Lioness.
42. Leopard. 820
- Thornycroft, Hamo, R. A., London.
43. The Mower.
44. Teucer.
45. Edward I.
46. Putting the Stone. 820
- Toft, Albert, London.
47. The Right Hon. W. E. Gladstone. 820
- Watts, G. F., R. A., London.
48. Clytie. 820
- Woolner, Thomas, R. A., (the late).
49. Bust of Lord Tennyson.
50. Bust of Carlyle.
51. Bust of Cardinal Newman.
52. Bust of Right Hon. W. E. Gladstone.
53. Medallion Portrait of Lord Tennyson. 820

GROUP 140.

Paintings in Oil.

- Allen, Robert W., R. W. S., London.
54. Lowlands of Holland.
55. Pilgrims Resting, India.
- Alma Tadema, Miss Anna, London.
56. A Portrait.
- Alma Tadema, L., R. A., London.
57. A Dedication to Bacchus.
58. An Audience at Agrippa's.
59. The Sculpture Gallery.
- Alma Tadema, Mrs., London.
60. Battledore and Shuttlecock.
61. Fireside Fancies.
62. Always Welcome.
- Archer, James, R. S. A., London.
63. St. Agnes, one of the Early Christian Martyrs.
- Armitage, E., R. A., London.
64. After an Entomological Sale.
65. Faith.
- Armstrong, T., London.
66. A Fountain.
67. A Music-piece.
- Aumonier, J., R. I., London.
68. An English Wood.
- Baden-Powell, F., London.
69. The Wooden Walls of Queen Victoria. Portraits of the last of England's wooden bulwarks, lying off Portsmouth dockyard, about 1840. The "Britannia," of 120 guns, on the right, was flagship of the port; the two-decker being the "London," of 92 guns, whilst the central three-decker, drying her sails, is the "Queen," of 110 guns; and on the extreme left lies the fast-sailing frigate, "Arethusa."
- Barber, C., Burton, London.
70. "Lieder ohne Worte."

DEPARTMENT K.—FINE ARTS.

71. The New Whip.
Barclay, Edgar, London.
72. "Hush."
73. A Breeze in the New Forest.
Barnes, Robert, A. R. W. S., Brighton.
74. Her First Visit.
Bartlett, Charles W., London.
75. An Incident in the Life of the Dauphin during the French Revolution.
Bartlett, W. H., London.
76. Practicing for the Swimming Match.
77. The Village Billiard Players.
78. A Wrack Harvest.
Bates, David, Birmingham.
79. The Sphinx.
Bayliss, Wyke, P. R. B. A., London.
80. Interior of Amiens Cathedral.
81. Interior of St. Peter's, Rome.
Beadle, James Prinsep, London.
82. Masquerade.
83. In the Pas de Calais.
Beavis, Richard, A. R. W. S., London.
84. A Stampede in the Highlands.
Belgrave, Percy, London.
85. Combe Valley, near Morwenstow.
Bigland, Percy, London.
86. Portrait of the Countess Cairns.
Boughton, G. H., A. R. A., London.
87. Dancing Down the Hay.
88. Winter Sunrise.
89. Love in Winter.
Bourdillon, Frank W. Dorking.
90. On Board the Revenge.
91. "Twas in '55."
Bramley, Frank, Penzance.
92. A Hopeless Dawn.
93. "For of Such Is the Kingdom of Heaven."
Brangwyn, Frank, London.
94. The Convict Ship.
95. Pilots, Peurta de Passages.
Brett, John, A. R. A., Putney.
96. The Highland Summer.
97. The Promise of a Wild Night.
98. "Some Fall on Stony Ground."
Brown, Ford Madox, London.
99. Romeo and Juliet.
100. Wicliff on Trial.
Brown, Frederick, London.
101. "When the Evening Sun is Low."
Burgess, J. B., R. A., London.
102. The Spanish Letter-Writer.
103. The Church Door.
104. "Maidens, Like Moths, Are Ever Caught with Glare."
Butler, Lady.
105. The Roll Call.
Calderon, W. Frank, London.
106. "Fire."
Calderon, P. H., R. A., London.
107. Farewell.
Caldecott, Randolph (the late).
108. Hunting Scene.
Calkin, Lance, London.
109. "The Campbells are Coming."
Calthrop, Claude, London.
110. Attempted Assassination of William the Silent, Prince of Orange.
Cameron, Hugh, S. R. A., Largo, Scotland.
111. Kilmeny Coming Back from Fairyland.
112. Buttercups and Daisies.
- Canziani, Madame Louisa Starr, London.**
113. Two Little "Home Rulers," the Hons. Dudley and Archie Gordon, sons of the Earl of Aberdeen.
Carter, Samuel J. (the late).
114. Midnight Ride of Herne the Hunter and His Band in Windsor Forest.
Carter, William, London.
115. Portrait of Wm. Sheppard Hoare, Esq.
116. Portrait of G. Trenchard Cox, Esq.
Charles, James, Bosham.
117. In Memory Of.
118. Left in Charge.
119. A Frosty Morning.
120. Jack at Home.
Charlton, John, London.
121. The Royal Jubilee Procession Passing Through Trafalgar Square.
122. Incident in the Charge of the Light Brigade.
Childers, Miss Milley, London.
123. The Last Survivor of Trafalgar.
Clark, James, London.
124. The Favorite.
125. Early to Bed.
Clark, Joseph, London.
126. The Sick Child.
127. Waifs and Strays.
128. Playmates.
Clausen, George, R. I., Newport.
129. Ploughboy.
130. Brown-eyes.
131. Women of the Field.
132. The Breakfast Table.
133. Ploughing.
Cohen, Miss Ellen G., London.
134. A Little Refugee from Russia.
Coke, Alfred Sacheverel, Isle of Wight
135. Hagar.
Cole, Vicat, R. A. (the late).
136. Abingdon.
137. Ripening Sunbeams.
Collier, The Hon. John, London.
138. The Death of Cleopatra.
139. Circe.
Corbet, Mrs. M. Ridley, London.
140. On the Coast near Pisa.
Corbet, M. Ridley, London.
141. The Carrara Mountains.
142. The Mouth of the Arno.
Crane, Walter, London.
143. Freedom.
Davis, H. W. B., R. A., London.
144. "Now Came Still Evening On."
145. A Gleamy Day, Picardy.
146. The Western Highlands.
Dawson, Nelson, London.
147. The Sunset Breeze.
Detmold, H. E., Hastings.
148. A Glimpse of Future Seas.
Dicksee, Frank, A. R. A., London.
149. The Passing of Arthur.
150. The Redemption of Tannhauser.
Dobson, W. C. T., R. A., R. W. S., Petworth.
151. The Wandering Minstrel.
East, Alfred, R. I., London.
152. An Angry Dawn.
153. The Arms of Peace.
Ellis, Edwin, London.
154. Full Summer, Flambro'.

GREAT BRITAIN.

- Emslie, A. E., London.
 155. Saving the Shipwrecked.
 156. Portrait of the Rev. James Martineau, D.D., D.C.L., LL.D.
 Etherington, Miss L., London.
 157. A Norfolk Dyke.
 Fabey, Edward H., R. I., London.
 158. Distant View of Florence, Looking up the Arno.
 159. The Nether Pool, a Nibble.
 160. Autumn.
 Farquharson, Joseph, London.
 161. Looking West.
 162. The Temple of Karnak.
 Farquharson, David, London.
 163. After the Storm, Glenlyon.
 164. Morning on the Common.
 Fisher, S. Melton, London.
 165. A Summer Night.
 Fisher, Horace, London.
 166. The Card Players.
 167. A Midday Rest.
 Fletcher, Morley, London.
 168. Shadow of Death.
 Fletcher, Blandford, Enfield.
 169. Evicted.
 Forbes, Mrs. Stanhope, London.
 170. The Witch.
 Forbes, Stanhope A., A. R. A., London.
 171. Forging the Anchor.
 172. Soldiers and Sailors.
 Frith, W. P., R. A., London.
 The Race for Wealth (a series of five pictures):
 173. The Spider and The Flies.
 174. The Spider at Home.
 175. Victims.
 176. Judgment.
 177. Retribution.
 Fulleylove, John, R. I., London.
 178. A Royal Palace.
 Furse, Charles W., London.
 179. Lady in Gray.
 180. Lady in Brown Riding Habit.
 Glazebrook, Hugh de T., London.
 181. C'est l'Empereur.
 Napoleon I, Finding a Sentry Asleep on Duty.
 182. Portrait.
 Goodall, Frederick, R. A., London.
 183. By the Sea of Galilee.
 184. The Palm Offering.
 Goodall, T. F., Dulwich.
 185. The Last of the Ebb; Great Yarmouth from Breydon Water.
 186. When the Sun Sets and the Moon Rises.
 Gotch, T. C., London.
 187. My Crown and Sceptre.
 Gow, A. C., R. A., London.
 188. Queen Mary's Farewell to Scotland.
 Grace, A. F., Steyning.
 189. Working Late in Valley of the Arun.
 190. The Valley of the Cuckmere.
 Grace, James E., Godalming.
 191. An Isle of Wight Pastoral.
 192. A Surrey Pond.
 Graham, Peter, R. A., London.
 193. Caledonia Stern and Wild.
 194. The Hamlet on the Cliff—a Rocky Coast.
 Graham, T., London.
 195. The Last Boat.
 Grey, Alfred, R. H. A., Dublin.
 196. An Irish Harvest Field; Peasants Loading Corn.
 Hacker, Arthur, London.
 197. Christ and The Magdalen.
 198. Portrait of Miss W.
 199. Fire Fancies.
 Hague, Anderson, R. I., Llandudno, Wales.
 200. Gyffin Old Mill.
 Hall, Fred., Penzance.
 201. Adversity.
 202. The Result of High Living.
 Halswelle, Keeley (the late).
 203. A Breezy Common.
 Hare, St. George, London.
 204. The Victory of Faith.
 205. Reflections.
 Hargitt, Edward, R. I., Basingstoke.
 206. The Isle of Skye from the Mainland, near Plockton.
 Hartley, Alfred, London.
 207. Trafalgar Square.
 Hayes, Edwin, R. H. A., R. I., London.
 208. Hard a Port.
 209. Saved.
 Hayes, Claude, Addlestone.
 210. Across a Surrey Common.
 Haynes-Williams, J., Southampton.
 211. Gallery of Francis I, Palace of Fontainebleau.
 Helcke, Arnold, London.
 212. Sandbanks.
 Herkomer, Prof. H., R. A., Bushey.
 213. The Last Muster.
 214. Miss Katharine Grant.
 215. Entranced.
 "In some diviner mood of self-oblivion solitude."
 Herkomer, Herman G., London.
 216. Portrait of Professor Hubert Herkomer, R. A.
 217. David Bisphan in "La Bosche."
 Hitchens, A., London.
 218. Fisherwomen Awaiting the Boats, Holland.
 Holiday, Henry, London.
 219. Aspasia.
 220. Street of Tombs, Pompeii.
 Holl, Frank, R. A. (the late).
 221. Portrait of John Tenniel.
 222. Samuel Cousins, R. A.
 223. The Earl Spencer, K. G.
 224. Portrait of the late J. S. Morgan.
 225. Portrait of Major-General Sir Henry Rawlinson, Bart., G. C. B., F. R. S.
 Holloway, C. E., London.
 226. The Old Town of Rye.
 Hook, J. C., R. A., Farnham.
 227. Wreckage from the Fruiter.
 228. "Little to Earn and Many to Keep."
 Hopkins, Arthur, A. R. W. S., London.
 229. "Springtime, The Only Pretty Ring-Time."
 Horsley, John Callicott, R. A., London.
 230. Hide and Seek.
 231. Finishing Touches.

DEPARTMENT K.—FINE ARTS.

- Horsley, Walter C., London.**
 232. The Captive.
 233. Fortune Teller—Cairo.
Hunt, Alfred W., R. W. S., London.
 234. From Peak to Peak in Cloudland.
Hunter, Colin, A. R. A., London.
 235. The First Plunge of Niagara.
 236. Fishers of the North Sea.
 237. The Island Harvest.
Hunter, G. Sherwood, London.
 238. Carrying the Viaticum, Finisterre, France.
 239. Funeral of a Fisherman's Child, Volendam, Zuyder Zee.
Huson, Thomas, R. I., Liverpool.
 240. "Mists Hung Wide O'er Moor and Fell."
Ingram, W. Ayerst, Falmouth.
 241. Surf.
Jacomb-Hood, G. P., London.
 242. Summer.
Jay, W. S., Arundel.
 243. Early Primrose, Herald of Spring.
Jenkins, Miss Blanche, London.
 244. A Water Nymph.
Johnson, C. E., R. I., London.
 245. The Slopes of Ben Nevis.
Johnson, Cyrus, R. I., London.
 246. A County Boundary.
Jolley, Gwilt, London.
 247. Consolatrix Afflictorum.
Jones, Sir Thomas A., P. R. H. A., Dublin.
 248. Loreli.
Jopling-Rowe, Mrs. Louise, London.
 249. "Dear Lady Disdain."
 250. Salome.
Joy, G. W., London.
 251. Lady Daffodil.
 252. Danaids.
Kennedy, C. N., London.
 253. Perseus.
Kennington, T. B., London.
 254. The Curse of the Family.
 255. The Fair Harpist.
King, Edward, Petersfield.
 256. A Frolic.
King, Yeend., R. I., London.
 257. Autumn Wooing.
 258. The Lass That Loved a Sailor.
 259. A Gray Day in July.
Knight, Joseph, R. I., Llandudno, Wales.
 260. A Turnip Field.
Knight, J. W. Buxton, London.
 261. Sunday Morning, Hadley Church.
 262. Plymouth. The Home of the First English Settlers in America.
Laidlay, W. J., London.
 263. The Approach.
 264. Moonrise on Hoxsey Mere.
La Thangue, L. H., Bosham.
 265. Leaving Home.
 266. A Gaslight Study.
Lavery, John, Glasgow.
 267. Katherine and Esther, Daughters of Lord McLaren.
 268. An Esquestrienne.
Lawson, Cecil (the late).
 269. The Hop Garden.
Leader, B. W., A. R. A., Shere.
 270. Conway Bay and the Carnarvonshire Coast.
 271. When Sun is Set.
Lehmann, Rudolf, London.
 272. Undine.
 273. The Reaper and the Flowers (Long-fellow).
Leighton, Sir Frederick, Bart., P. R. A., London.
 274. Hercules Wrestling with Death for the Body of Alcestes.
 275. Garden of the Hesperides.
 276. Perseus and Andromeda.
 277. Portrait of Captain Burton.
Leighton, E. Blair, London.
 278. The Secret.
 279. How Lisa Loved the King. Boccaccio.
Lemon, Arthur, Betchworth.
 280. All Among the Barley.
Leslie, G. D., R. A., Wallingford.
 281. Hen and Chickens.
 282. "Home, Sweet Home."
 283. The Monks of Abingdon.
Lindner, M. P., London.
 284. A Winter Sunset.
 285. Moonlight.
Linnell, John (the late).
 286. Storm at Harvest.
Linton, Sir James D., P. R. I., London.
 287. Victorious.
 288. The Benediction.
Lockhart, W. E., R. S. A., London.
 289. The Swineherd.
 290. Portrait of John Polson, Esq.
Logsdail, Wm., London.
 291. Ninth of November.
 292. Sunday in the City.
 293. Venice from the Public Garden.
 294. Flower Gathering, South of France.
Long, Edwin, R. A. (the late).
 295. A Welsh Girl.
 296. Rose Bradwardine, from Sir Walter Scott's "Waverly."
Lorimer, J. H., London.
 297. A Child's Thank-offering.
 298. Pot-pourri.
Loudan, Mouat, London.
 299. Fish Market, Cornwall.
Lucas, Seymour, A. R. A., London.
 300. St. Paul's.
 301. Louis XI.
Lucas, Mrs. Seymour, London.
 302. Henry VI.
Lund, Niels M., London.
 303. A Scotch River.
Macallum, Hamilton, R. I., London.
 304. "Rocked in the Cradle of the Deep."
 305. Return from Lance Fishing.
Macartney, Carlile, H. H., London.
 306. Moorland.
Macbeth, Robert W., A. R. A.
 307. Stag Hunting in a Sea Fog.
 308. The Fen Farm.
Macbeth-Raeburn, H., London.
 309. Nurse Ann, a Portrait.
 310. Lewis Walters, Esq., a Portrait.
Macgregor, Miss J., London.
 311. In the Reign of Terror.
 312. The Mistletoe Bough.
Maclaren, Walter, London.
 313. Fruit Harvest-time in an Orange Garden, Capri, Italy.
Macwhirter, John, A. R. A., London.
 314. "Fair of the Glen."

GREAT BRITAIN.

315. Corrie-Arran.
 316. "Hail, Gentle Spring."
Margetson, W. H., London.
 317. Pygmalion.
Marks, H., Stacy, R. A., London.
 318. The Gentle Craft.
Mason, G. H. (the late).
 319. Girls Dancing by the Sea.
 320. The Harvest Moon.
 321. Return from Ploughing.
 322. Only a Shower.
McCulloch, George, London.
 323. Caliban and Ariel.
McLachlan, T. Hope, London.
 324. Mists in Early Autumn.
 325. A Wind on the Hill.
Menpes, Mortimer, London.
 326. India.
 327. India.
 328. Venice.
 329. Japan.
Merritt, Mrs. Anna Lea, Andover.
 330. Eve.
Millais, Sir John Everett, Bart., R. A., London.
 331. The Ornithologist.
 332. Halcyon Weather.
 333. The Last Rose of Summer.
 334. Sweet Emma Morland.
 335. Lingering Autumn.
 336. Shelling Peas.
 337. Bubbles.
Miller, P. H., London.
 338. The Old Arm Chair.
Millet, F. D., Worcestershire.
 339. How the Gossip Grew.
Montalba, Miss Clara, R. W. S., Venice.
 340. A Thames Barge Off Chelsea.
Moore, Albert, London.
 341. A Reverie.
Moore, Henry, A. R. A., London.
 342. Storm Brewing.
 343. St. Alban's Race.
 344. Sunset after a Storm.
Morgan, Fred, London.
 345. The Favoured Swain.
Morris, P. R., A. R. A., London.
 346. Sons of the Brave.
 347. Fête Dieu, Dieppe, Normandy.
 348. Edward I Demanding the Oath of Allegiance to the First Prince of Wales.
Moscheles, Felix, London.
 349. Reciter in a Arab Café, Cairo.
Mottram, C. S., London.
 350. A Winter Sea on the Yorkshire Coast (Morning).
Moynau, R. T., R. H. A., Dublin.
 351. Military Manœuvres.
Murray, David, A. R. A., London
 352. The River Road.
 353. A Mangold Field.
 354. Season of Mists and Mellow Fruitfulness.
Nicol, J. Watson, London.
 355. "The good old rule, the simple plan,
 That they should take who have
 the power,
 And they should keep who can."
Noble, Robert, Prestonkirk.
 356. September.
Normand, Ernest, London.
 357. Death of Pharoah's First Born.
Norris, H. L., London.
 358. Twilight.
North, J. W., R. W. S., Taunton.
 359. "Seest how fresh my flowers be spread,
 In lily-white and crimson-red."
 —Spencer.
Olivier, Herbert, London.
 360. Portrait of the Venerable Archdeacon Farrar.
Orchardson, W. Q., R. A., London.
 361. A Portrait Group.
Osborn, Miss E. M., London.
 362. Summer Shroud.
 "When nature's dying face is veiled."
Osborne, Walter, R. H. A., Dublin.
 363. The Ferry.
Oules, W. W., R. A., London.
 364. Portrait of T. S. Cooper, Esq., R. A.
 365. Portrait of Sir Donald Smith, K.C.M.G.
Overend, W. H., London.
 366. "Victory!" The Prize Crew Taking Possession.
Palin, W. M., Milford.
 367. Orphans.
Parker, John, R. W. S., London.
 368. Cockle Gatherers.
Parsons, Alfred, R. I., London.
 369. In a Cider Country.
 370. The Flowers Appear on the Earth.
 371. "The Voice of the Turtle is Heard in the Grove."
 372. The Daylight Dies.
Parton, Ernest, London.
 373. When Daylight Dies.
 374. Misty Morn.
 375. The Night Ferry.
Pash, Miss Florence, London.
 376. Over the Way.
Peppercorn, A. N., Leatherhead.
 377. The Cornfield.
 378. A Surrey Village.
Perugini, Mrs. Kate, London.
 379. Tomboy.
 380. Happy and Careless.
Perugini, C. E., London.
 381. Crossing the Torrent.
 382. A Summer Shower.
 383. Clare.
Pettie, John, R. A. (the late), London.
 384. The Traitor.
 385. Silvia.
 386. Monmouth Pleading for His Life Before James II.
 387. Bonnie Prince Charlie.
Phillips, Laurence B., R. P. E., London.
 388. A Mill in Kent.
Pickering, J. L., London.
 389. An Autumn Gust.
 390. An Old World Home.
Poole, P. F., R. A. (the late).
 391. The Prodigal Son.
 392. Greek Exiles.
Poynter, E. J., R. A., London.
 393. Under the Sea Wall.
 394. On the Terrace.
 395. Diadumene.
 396. White Roses.
Price, J. M., London.
 397. Viaticum.

DEPARTMENT K.—FINE ARTS.

- Prinsep, Val. C., A. R. A., London.
 398. The Broken Idol.
 Pyne, Thomas, R. I., Colchester.
 399. Streatley Hill on the Thames.
 Radford, Edward, A. R. W. S., London.
 400. Weary.
 Rae, Iso., Paris.
 401. A Little Peasant.
 Rae, Henrietta (Mrs. E. Normand), London.
 402. La Cigale.
 403. Doubts.
 Rattray, Wellwood, R. S. A., Glasgow.
 404. Golden October on the Forth.
 405. Summer Eve, Kintyre.
 Reed, George Ogilvie, R. S. A., Edinburgh.
 406. The Stroller's Tale.
 Reid, Miss Flora M., London.
 407. Hush!
 408. In the Market Place.
 Reid, John R., London.
 409. The Mate of the "Mermaid's Wedding."
 410. The Yarn.
 Riviere, Briton, R. A., London.
 411. Requiescat.
 412. Daniel.
 413. The Magician's Doorway.
 Robertson, Henry Robert, London.
 414. "The Ploughman Homeward Plods his Weary Way."
 Rooke, T. M., London.
 415. King Ahab's Coveting.
 416. Judith's Adventuring.
 Sadler, W. Dendy, London.
 417. Darby and Joan.
 418. Lea Roachers.
 Sant, James, R. A., London.
 419. Oliver Twist.
 "He Walks to London."
 420. My Lady Dorothy.
 Schloesser, Carl, London.
 421. Moliere Reading to His Servant "La Foret."
 Schmalz, Herbert, London.
 422. Christianæ ad Leones.
 423. Topsy.
 Schmiechen, H., South Kensington.
 424. Portrait of Mrs. Bloomfield Moore.
 Shannon, J. J., South Kensington.
 425. Portrait of Mrs. Hitchcock.
 426. Portrait of G. Hitchcock, Esq.
 427. Portrait of Mrs. Charlesworth.
 Small, William, R. I., London.
 428. Love Laughs at Rain.
 429. Returning from Market, Connemara; Rough on Biddy.
 Smallfield, Frederick, R. W. S., London.
 430. Colonel Newcome in Charterhouse; Grace After Meat.
 Smart, John, R. S. A., Edinburgh.
 431. A Glen Without a Name, Ben Cruachan.
 Smythe, Lionel P., London.
 432. Boulogne Shrimpers.
 433. Harvest of the Sea, Boulogne.
 Solomon, Solomon J., London.
 434. Orpheus.
 Stacey, Walter S., London.
 435. Rough Courting.
 Starling, Albert, London.
 436. Saved From the Sea.
 Steer, P. Wilson, London.
 437. Bathers.
 438. The Sofa.
 Stephens, W. R., London.
 439. Summer.
 Stokes, Adrian, London.
 440. The Setting Sun.
 441. Through the Morning Mist.
 442. Roman Campagna, Sunset.
 443. Early Spring, Roman Campagna.
 Stokes, Mrs. Adrian, London.
 444. Hail, Mary.
 445. "Go; Thou Must Play Alone, My Boy."
 Stone, Marcus, R. A., London.
 446. The Gambler's Wife.
 447. The Passing Cloud.
 448. Two's Company, Three's None.
 Storey, G. A., A. R. A., London.
 449. The Padre, A Spanish Interior.
 Stott, Edward, Amberley.
 450. Peaceful Evening.
 451. The Bathers.
 452. The Horse Pond.
 453. In an Orchard.
 Stott, William, Oldham, London.
 454. Kissing Ring.
 Swan, John M., London.
 455. The Fallen Monarch.
 456. Maternity.
 Swan, Mrs., London.
 457. The Chorister.
 458. The Duet.
 Swynnerton, Mrs. Annie L., London.
 459. Mater Triumphales.
 460. Portrait of Miss Jane Atkinson.
 Symonds, W. R., London.
 461. Mignon.
 Symonds, W. Christian, Mayfield.
 462. The Figure Head of the Cupid.
 463. Diana and Endymion.
 Tayler, A. Chevallier, London.
 464. The Encore. "Home, Sweet Home."
 465. The Peddler.
 Thomson, Leslie, London.
 466. The Homeless Sea.
 Thornley, Charles, East Moulsey.
 467. Dutch Fishing Boat.
 Titcomb, William Holt Yates, Balam.
 468. Primitive Methodists, St. Ives, Cornwall.
 469. Old Sea Dogs.
 Topham, Frank W. W., R. I., London.
 470. Naaman's Wife—II Kings, v. 1-2.
 Tuke, Henry S., Hanwell.
 471. Sailors Playing Cards.
 Walker, J. Hanson, London.
 472. A Portrait, "May."
 473. Mrs. Frank Grimwood, of Manipur.
 Walker, Francis S., R. H. A., London.
 474. The Convent Garden.
 Waller, Mrs. Mary L., London.
 475. The Card Dealer.
 Waller, S. E., London.
 476. One-and-twenty.
 477. The Empty Saddle.

GREAT BRITAIN.

478. Walton, E. A., A. R. S. A., Glasgow.
Girl in Brown.
479. Walton, Frank, R. I., Dorking.
Wreck of Spanish Armada Ship.
480. Ward, Mrs. E. M., London.
Mrs. Fry Visiting Newgate in 1818.
481. The Ugly Duckling.
Waterhouse, J. W., A. R. S. A., London.
482. Mariamne Leaving the Prætorium.
Waterlow, Ernest A., A. R. A., London.
483. Over the Sandhills, Bristol Channel.
484. The Misty Moon, Isle of Arran.
485. The Night Before Shearing.
Watts, G. F., R. A., London.
486. Love and Life.
487. Love and Death.
488. Paolo and Francesca.
489. The Genius of Greek Poetry.
490. Portrait of Robert Browning.
491. Portrait of Walter Crane.
- Weguelin, J. R., London.
492. The Maidens' Race.
- Wehrschmidt, Daniel A., Bushey.
493. Finding the Head of Orpheus (Lucian).
- Wetherbee, G. London.
494. Fishermen's wives.
495. Glad Spring.
- White, John, Axminster.
496. Our Village.
497. Beer Head, Devon.
- Wilkinson, Hugh, Brockenhurst.
498. A Cloudy Morning.
- Williams, Alexander, A. R. A., Dublin.
499. The Port of Dublin—Sunset.
- Wirgman, T. Blake, London.
500. Portrait of Miss Applin.
501. Portrait of Mrs. Wirgman.
- Wood, Miss E. Stewart, London.
502. Autumn.
- Woods, Henry, A. R. A., Venice, Italy.
503. Steps of the Scuola, San Rocco.
- Wortley, Archibald Stuart, London.
504. Mrs. H. Grenville Wells.
505. Miss Maud Waller.
506. Miss Clare Davis.
- Wright, Miss E., London.
507. Pierrette Encroyable.
- Wyllie, W. L., A. R. A., Rochester.
508. The German Emperor and Prince of Wales inspecting the White Star Steamer "Teutonic" at Spithead, August 4, 1889.
509. Orient Liner "Ormuz" off the Eddystone.
510. The Port of London.
511. Davy Jones' Locker.
- Wyllie, Charles W., London.
512. The Brimming River.
513. The Mighty Fallen.
- Yeames, William, F. R. A., London.
514. Prisoners of War. 1805.
- Alma-Tadema, L., R. A., London.
518. Calling the Worshippers.
- Alma-Tadema, Miss Anna, London.
519. The Drawing Room, Townshend House.
- Aumonier, J., R. I., London.
520. Old Shoreham, Sussex.
- Bayliss, Wyke, P. R. B. A., London.
521. Interior of Westminster Abbey.
- Becker, H., Colchester.
522. The Mower.
- Brewtnall, Edward F., R. W. S., London.
523. Christian and Evangelist.
524. The Dragon's Cave.
- Brierly, Sir Oswald W., R. W. S., London.
525. H. R. H. the Prince of Wales' R. Y. S. Yacht "Aline," manœuvring the Royal Yacht Squadron at Cowes, August, 1885.
526. H. R. H. the Prince of Wales, Commodore of the Royal Yacht Squadron and the Royal Thames Yacht Club, starting the Ocean Yacht Race round the United Kingdom from Southend, June 14, 1887.
527. H. M. S. "Black Prince." (Capt. H. R. H. the Duke of Edinburgh.)
- Buckman, Edwin, A. R. W. S., London.
528. Perparing Oranges for the Packers, Andalusia.
- Bulleid, G. Lawrence, A. R. W. S., Glastonbury.
529. In Doubt.
530. A Custodian.
531. At The Temple Gate.
- Callow, William, R. W. S., F. R. G. S., Great Missenden.
532. On the Lake of Como, Looking Toward Menaggio.
- Collier, Thomas, R. I. (the late).
533. Two Green Roads.
- Countts, H., Windermere.
534. A Sheep Farm in the Duddon.
- Crane, Walter, London.
535. Church of Rievaulx Abbey.
536. Refectory, Rievaulx Abbey.
- Dadd, Frank, R. I., Blackheath.
537. The Captain of the Troop.
- Dealy, Miss Jane M., R. I., Blackheath.
538. A Fresh Breeze and Away.
539. "One foot up and one foot down, That's the way to London town."
- Dillon, Frank, R. I., London.
540. The Temple of Gertasee, Nubia.
- Dobson, W. C. T., R. A., R. W. S., Petworth.
541. Ada with the Golden Hair.
542. Summer Roses.
- Duffield, Mrs. William, R. I., London.
543. Japanese Roses.
- Du Maurier, George, London.
544. Time's Revenge.
- Earle, Charles, London.
545. Evening in the Forum at Rome.
546. Arance Dolce Amalfi.
- East, Alfred, R. I., London.
547. Early Night.
548. Northampton.

GROUP 141.

Paintings in Water Colors.

- Allan, Robert W., R. W. S., London.
515. Loch Ranza, Arran.
516. Gwalior, India.
- Allingham, Mrs., R. W. S., London.
517. The Sick Duckling.

DEPARTMENT K.—FINE ARTS.

- Elgood, George S., R. I., Leicester.**
 549. Compton Wynyates.
 550. "Down where the Garden grows Gay as a Banner."
 551. Sunflowers.
Ellis, Tristram, London.
 552. The Acropolis, Athens, from the Hill of the Nymphs.
Evershed, Arthur, A. R. P. E., London.
 553. The Quay, Bawdsey, Suffolk.
 554. An Essex Barn.
Foster, Birket, R. W. S., Witley.
 555. Ben Nevis.
Fowler, Robert, R. I., Liverpool.
 556. The Tempest.
 557. The Witch of Atlas.
Fripp, Charles E., A. R. W. S., London.
 558. Steps of Kurodani Temple on a Fête Day, Japan.
 559. Afternoon in a Japanese Village.
 560. Shrine at Seta, Japan, After Rain.
Fulleylove, John, R. I., London.
 561. Hampton Court Palace.
 562. Magdalen Tower and Bridge, Oxford.
Gilbert, Sir John, R. A., Blackheath.
 563. Richard II Resigning the Crown to Bolingbroke.
 564. Conspiracy.
Goodall, Edward A., R. W. S., London.
 565. Interior of the Mosque of Sultan Hassan, Cairo.
 566. Bab Zooaleh, one of the Gates of Cairo.
Gotch, T. C., London.
 567. A Letter from America.
Gow, Andrew C., R. A., London.
 568. Requisitionists.
Gow, Miss Mary L., London.
 569. The Story of the Willow Pattern.
 570. Beggar My Neighbour.
Grace, A. F., Steyning.
 571. Maytime on Downs, Isle of Wight.
 Portsmouth in Distance.
 572. Old Farmhouse, Sussex.
Green, C., R. I., London.
 573. Nell and Her Grandfather.
 574. The Pickwick Club.
Green, Towneley, R. I., London.
 575. A Way they Have in the Army.
Greenaway, Miss Kate, London.
 576. Title-page, "Marigold Gardens."
 577. Little Phyllis, "Marigold Gardens."
 578. My Little Girlie, "Marigold Gardens."
 579. Mulberry Bush, "Children's Games."
 580. Game Play, "Hyacinth's Language of Flowers."
 581. Girl Drawing Chaise with Two Children.
Gregory, Chas., R. W. S., Ripley.
 582. Luther's Abstraction.
 583. The Sorcerer.
 584. In Winchester.
Haag, Carl, R. W. S., London.
 585. One of Our Ancestors.
 586. A Druidical Novice.
 587. A Bridal Procession at Damascus.
 588. The Schoene Brunnen at the Market Place of Numburg.
Hague, Anderson, R. I., Llandudno, Wales.
 589. Winter.
Hall, Oliver, R. P. E., London.
 590. The Duddon Valley from Above Leathwaite.
 591. A Windy Day.
Hargitt, Edward, R. I., Basingstoke.
 592. The Undercliff, Isle of Wight.
 593. Eridge Park, Kent.
Hatherell, W., R. I., London.
 594. Quarter Deck of a P. & O. Steamer.
 595. Monaco and Monte Carlo, from Roquebrune.
Hayes, Claude, Addlestone.
 596. Moonrise.
Hayes, Edwin, R. H. A., R. I., London.
 597. Fishing Smack Leaving Port.
Henshall, J. Henry, R. W. S., London.
 598. "Merry Goes the Time when the Heart Is Young."
 599. In Wonderland.
Hine, Harry, St. Albans.
 600. Durham: The Castle, Town and Cathedral.
 601. Lincoln.
Hine, Henry George, V. P. R. I., London.
 602. Durlstone Head, Dorsetshire.
Hodson, Samuel J., R. W. S., London.
 603. Piazza dei Signori, Verona.
 604. Corner of the Ducale, Venice.
 605. Cordo, Verona.
Holiday, Henry, London.
 606. Sunset and Moonlight on the Atlantic.
Hopkins, Arthur, A. R. W. S., London.
 607. Outward Bound.
 608. Saturday Evening on the Quay.
Hunt, Alfred W., R. W. S., London.
 609. Summer Sunshine, Capel Curig.
 610. A November Rainbow.
 611. Robin Hood's Bay, North Yorkshire Coast.
 612. 'Twixt Sea and Land, North Wales.
Johnston, Cyrus, London.
 613. The Sun Inn, Dedham.
Kilbourne, G. Goodwin, London.
 614. Good Accommodation for Man and Beast.
 615. A Difficulty.
Knight, Joseph, R. I., Llandudno, Wales.
 616. Twilight.
Lamont, T. R., R. I., London.
 617. The End of the Prologue.
Langley, Walter, R. I., Penzance.
 618. Disaster.
 619. Departure of the Fleet.
Linton, Sir James D., P. R. I., London.
 620. Abandoned.
Lloyd, Tom, R. W. S., London.
 621. Ferry Boat, Ahoy.
 622. The Last Load.
Macallum, Hamilton, R. I., London.
 623. A Capri Boy.
 624. Caught by the Tide.
Macquoid, Percy, R. I., London.
 625. Excommunicated.
Macquoid, Thomas R., R. I., London.
 626. At Kampen, Holland.
 627. Water Carriers, Spain.
 628. In Mercia, Spain.
Marrable, Mrs., London.
 629. Old Cedar Trees, Boyle Farm, Thames Ditton, Surrey.

GREAT BRITAIN.

630. Val de Fex, Engadine, Switzerland.
 631. Piazza Communale Nebbiolo, Lago di Como.
Martineau, Miss Edith, A. R. W. S., London.
 632. In Sweet Music.
 633. Her Favorite Doll.
 634. Shelling Peas.
McGuinness, Bingham, R.H.A., Dublin.
 635. Kilchurn Castle, Loch Awe.
 636. Hangman's Bridge, Nuremberg.
Moore, Henry, A. R. A., London.
 637. Bright Morning After a Breeze.
 638. Scheveningen; Waiting for the Shrimp Boats.
Montalba, Miss Clara, R. W. S., Venice.
 639. St. Mark's, Venice.
 640. A Venetian Ferry.
 641. After a Storm, Venice.
Murray, David, A. R. A., A. R. W. S., London.
 642. Hayfield.
Nash, Joseph, R. I., Chiswick.
 643. A Winter Morning.
 644. A Winter Sunset, Ben Nevis.
 645. The Haunted Chamber.
 646. After the Gale.
Nisbet, R. B., Edinburgh.
 647. A Borderland Sunset.
Norman, Philip, London.
 648. Courtyard of The White Hart Inn (now destroyed).
 649. Interior of Barnard's Inn, Holborn (now dismantled).
 650. The Courtyard of the George Inn, Southwark.
Orrock, James, R. I., London.
 651. Cardross Moss, Perthshire.
 652. Rough Sea off the Isle of Arran.
Parker, John, R. W. S., London.
 653. The Village Rendezvous.
Parsons, Alfred, R. I., London.
 654. Bodenham Church.
 655. Somersetshire Hills.
Phillip, Colin B., A. R. W. S., London.
 656. Evening in the Glen.
 657. A Summer Day, Loch Etive, Argyllshire, N. B.
Pilleau, H., R. I., London.
 658. Amalfi, South Italy.
 659. Entrance to The Ducal Palace, Venice.
Pilsbury, Wilmot, Taunton.
 660. An Old Village Cross.
 661. A Duckpool.
 662. A Farmstead.
Poynter, E. J., R. A., R. W. S., London.
 663. In a Garden.
Radford, Edward, A. R. W. S., London.
 664. Nausicaa.
 665. Eros.
 666. Hero.
Rainey, W., Chichester.
 667. The Old Vronn.
 668. The City Wall.
Rigby, Cuthbert, A. R. W. S., Kendal.
 669. An October Flood.
 670. Summer Days.
 671. The Falls Above Coniston.
Richardson, John I., R. I., London.
 672. Snowstorm in Glencoe.
 673. Carting Faggots, Sussex.
Rivers, Leopold, London.
 674. Harvest Home.
Robertson, Arthur, London.
 675. Minerva.
Rooke, T. M., London.
 676. North Transept, Troyes Cathedral.
Severn, Arthur, R. I., Herne Hill.
 677. Florence, from San Miniato.
 678. Waves Breaking, near Kilkee, West Coast of Ireland.
Smallfield, Frederick, R. W. S., London.
 679. The Velvet Hat.
 680. Prato, Tuscany, The Ringhiera of Donatello Outside the Duomo.
Smith, Carlton A., R. I., London.
 681. A Corner of the Studio.
 "Oh! woman in our hours of ease, Uncertain, coy and hard to please."
Smythe, Lionel P., London.
 682. The Field of the Cloth of Gold.
 683. Summer Holidays.
Squire, Miss Alice, R. I., London.
 684. Springtime.
 685. An Autumn Afternoon.
 686. A Quiet Stream.
Steer, H. R., R. I., Hinckley.
 687. Oliver Goldsmith's Social Gatherings, Green Arbour Court, 1759.
 688. "Long was the Good Man's Sermon."
Stevens, A., Chiswick.
 689. Durham.
Stillman, Mrs., Rome.
 690. Fra Currado d' Offidi.
Stock, Henry J., R. I., London.
 691. Immortality's Sunrise.
 692. A Youth in the Flames of First Love.
Thomas, William L., London.
 693. Once Upon a Time.
 694. Frame of Drawings of Highland Scenery.
Thornycroft, Miss Helen, London.
 695. Orchids.
 696. Shirley Poppies.
 697. Azalea, with Bronze Figure of "The Mower."
 698. Orchids.
Topham, Frank W. W., London.
 699. Recruiting for Savonarola; "Ye Can not Serve God and Mammon."
Waite, R. Thorne, R. W. S., London.
 700. The Blue Wagon.
 701. Between the Showers.
Walker, W. Eyre, A. R. W. S., London.
 702. "The Brief Silence of an Hour Reigns o'er the Fields."
 703. Moonrise on the Lowther.
Walton, E. A., A. R. S. A., Glasgow.
 704. Phyllis.
Walton, Frank, R. I., Dorking.
 705. Torrisdale, Kintyre.
 706. Arran, From Carradale.
Waterlow, Ernest A., A. R. A., A. R. W. S., London.
 707. The Evening Hour.
Weatherhead, William, H. R. I., London.
 708. Chelsea Pensioners.

DEPARTMENT K.—FINE ARTS.

709. Weedon, A. W., R. I., London.
Near Sandwich, Kent.
710. Evening Shadows, Richborough, Kent.
711. Wetherbee, G., London.
A Fisher Maiden.
712. Whaite, H. Clarence, R. W. S., London.
Cambrian Shepherds.
Whitley, Miss Kate Mary, R. I., Leicester.
713. Ammonite and Minerals.
Wollen, W. B., London.
714. "It May be for Years, It May be Forever."
715. Capture of French Guns by the Union Brigade, at Waterloo.
Yeames, William, F. R. A., London.
716. The Law's Delay, Barnard Court.
Youngman, Miss A. M., R. I., Greenwich.
717. Pelargoniums.
718. Rhododendrons.

GROUP 143.

Engravings and Etchings.

719. Allbon, Charles F., London.
On the Sands, Scheveningen.
720. Antwerp.
721. Lago Di Como.
722. Venice.
Appleton, T. G., Shalford.
723. Rembrandt, en officier.
724. Nature.
725. The Sisters.
726. Washington.
Ball, Wilfrid, London.
727. Venice.
728. Evening Light.
Baskett, Charles E., Colchester.
729. A Mend by the Way.
730. An Old Stackyard, Winter.
731. Stratford, St. Mary Bridge.
732. Donyland Wood, Winter.
Bigland, Percy, London.
733. The Rt. Hon. W. E. Gladstone. (Mezzotint.)
Burgess, Walter W., London.
734. Bits of Old Chelsea.
735. Bits of Old Chelsea.
736. Bits of Old Chelsea.
737. From Waterloo Bridge.
738. Canterbury Cathedral.
739. Norwich.
Cameron, D. Y., Glasgow.
740. Frame of Etchings.
741. Frame of Etchings.
Charlton, Edward W., A. R. P. E., Ringwood.
742. Manning the Pilchard Boats, Cornwall.
743. Coasters in Harbor.
744. Tramps.
745. Southampton.
746. Repairing the Coast Road.
747. The Old Harbor.
Chattock, R. S., F. R. P. E., London.
748. The Holt.
749. Poplars.
750. The Moorhen.
751. On Hampstead Heath.
752. Blast Furnaces.
Clouston, Robert S., Watford.
753. The Jew Merchant. (After Rembrandt.)
754. The Viscountess Crosbie. (After Sir Joshua Reynolds.)
Dale, Mrs. G., London.
755. Sweet Violets. (After F. Dicksee.)
Dalglish, T. Irving, London.
756. An Eastern Procession, Northern Spain.
757. Calle Mayor, Fuentenabia.
758. Anita.
759. Sunset.
Dicksee, Herbert, London.
760. Memories.
761. A Tigress.
762. His Majesty.
763. A Wanderer.
Ellis, Tristram, London.
764. { The Golden Horn. (Artist's proof.)
The Midnight Sun, North Cape. (Artist's proof.)
765. St. Michael's Mount, Cornwall. (Artist's proof.)
766. { A Corner of the Parthenon, Athens. (Artist's proof.)
The Yein Djami, Constantinople. (Artist's proof.)
767. The "Victory," Portsmouth. (Artist's proof.)
Evershed, Arthur, A. R. P. E., London.
768. Nine Subjects, drawn directly on copper from nature.
769. Nine Outdoor Etchings, drawn directly on copper from nature.
770. The Tower of London.
Finnie, John, Liverpool.
771. Margin of Rydal.
772. By Pastures Green and Quiet Waters.
Gardner, W. Biscombe, Haslemere.
773. Wood engravings (artist's proofs).
Gascoyne, George, London.
774. Ploughing.
775. A Wayfarer.
Haden, Francis Seymour, P. R. P. E., Alresford.
776. Morning, near Swanage, Dorset.
777. Evening, near Swanage, Dorset.
778. Durlston Head, Dorset Coast.
779. Undercliff, Dorset Coast.
780. Corfe Common, Dorset.
781. A Village Street in Corfe, Dorset.
782. An Inn Kitchen in Corfe, Dorset.
783. Study of Oaks, Chesterfield, Derbyshire.
Haig, Axel H., Haslemere.
784. English Pastoral.
785. The Portals of Reims.
786. The Aisles of Chartres.
787. The Chancel of Durham Cathedral.
Hall, Oliver, R. P. E., London.
788. A Study of Trees.
789. A Windy Day on Angerton Moss.
790. A Windy Day.
Heseltine, J. P., London.
791. Six Etchings from Nature.
Hole, William, R. S. A., Edinburgh.
792. The Wood Sawyers.
793. The Jumping Horse. (After John Constable.)
794. He is Coming. (After Matthew Mario.)
795. Don Gaspar de Gusman, Count of Oliveze. (After Velasquez.)
796. Mill on the Yare. (After J. Crome.)

GREAT BRITAIN.

- Huson, Thomas, R. I., R. P. E., Liverpool.
797. Heralds of a Storm.
Law, David, London.
798. Water Meadows.
799. Silver Birches.
800. Arundel Castle.
801. Birthplace of Burns.
Lewis, C. W. Mansel, Llanely.
802. Counting the Flock.
803. A Welsh Hat.
804. A Vagrant.
Lowenstam, Leopold, London.
805. In a Rose Garden.
806. A Favorite Author.
807. Harvest Festival.
Macbeth-Raehurn, H., London.
808. Portrait. (After Vandyke.)
809. The 'Cello Player. (After Metza.)
810. Wind on the Wold. (After Mason.)
Macbeth, Robert W., A. R. A., London.
811. The Garden of Love. (After Titian.)
812. The Spinners. (After Velasquez.)
813. Alozo Cano. (After Velasquez.)
814. Bacchus and Ariadne. (After Titian.)
815. The Cast Shoe, Lynn Ferry. (Original etching.)
816. Harbor of Refuge. (After Fred Walker.)
817. Plough. (After Fred Walker.)
818. Spring. (After Fred Walker.)
819. Autumn. (After Fred Walker.)
820. Fen Farm. (Original etching.)
Martyn, Miss Ethel King, London.
821. Illustrations to Milton's "Lycidas."
May, W. Holmes, London.
822. The Garden Front, Haddon Hall
823. Sunrise on the Welsh Coast.
Menpes, Mortimer, R. P. E., London.
824. Banquet of the Officers of the Archers of St. Adrian. (After F. Hals.)
825. A Captive Persian. (Original dry point.)
826. Dorothy. (Original dry point.)
827. Dry Point.
Murray, Charles O., London.
828. Haymakers.
829. The Patriarch.
830. The Great Frost of 1891, on the Thames.
831. The Virgin Porch, Oxford.
Paton, Hugh, Manchester.
832. A Reef in the Foresail.
833. A Cheshire Lane.
834. Highland Pasturage.
Phillips, Laurence B., R. P. E., London.
835. A Brittany Castle.
836. The Piazzetta, Venice (After Rain).
Piper, Miss Elizabeth, London.
837. The Chelsea Homes of Carlyle, Rossetti, Turner and George Eliot.
838. Le Musee De Cluny, Paris.
839. Old Chelsea Church.
840. The Spinning Wheel.
841. The Cloisters, Bristol Cathedral.
Pratt, Joseph B., London.
842. Daniel's Answer to the King. (After Briton Riviere, R. A.)
843. Trim. (After Sir E. Landseer.)
844. Stolen Kisses. (After Briton Riviere, R. A.)
845. After a Storm in the Highlands. (After Rosa Bonheur.)
Robertson, Arthur, London.
846. "I Won't Sit." (After J. G. Cotman.)
847. The Villa d'Este, Tivoli.
Robertson, Henry Robert, London.
848. Ulysses Deriding Polyphemus.
849. An Upland Farm.
850. "The Ploughman Homeward Plods his Weary Way."
Robertson, Percy, Godalming.
851. Winchester.
852. A Wet Day, Witley.
853. But One.
Robinson, Gerald, Leatherhead.
854. Queen Henrietta Maria.
855. The Burgomaster.
856. Earl Spencer, K. G.
857. The Parson's Daughter.
Sherborn, Charles Wm., London.
858. Seymour, Haden, Esq.
859. Oliver Cromwell.
860. Shakespeare.
861. Archbishop of Canterbury.
862. Frame of Book Plates.
863. Frame of Book Plates.
Short, Frank, London.
864. Diana and Endymion. (After G. F. Watts, R. A.)
865. Per Horse Power Per Hour. (Original mezzotint.)
866. Swiss Pass. (After J. M. W. Turner, R. A.)
867. A Sussex Down. (After John Constable, R. A.)
868. Low Tide and the Evening Star. (Original etching.)
869. Rye Pier. (Original aquatint.)
Slocombe, Fred., London.
870. A Yorkshire Lane.
871. Going Home.
872. A Hunting Morn.
873. Wharfedale.
874. The Avon at Salisbury.
Slocombe, Edward, Watford.
875. The Matterhorn.
876. The Grand Place, Antwerp.
Spread, William, R. P. E., London.
877. A Street in Bruges
878. En Normandie.
879. An Old Shop, Vitre, France.
880. Faubert's Place, Regent Street, London.
Stacpoole, F., London.
881. "They say the lion and the lizard keep the Courts where Jamshyd gloried and drank deep." (After Briton Riviere, R. A.)
882. The Night Watch. (After Briton Riviere, R. A.)
Sternberg, Frank, Bushey.
883. A Bacchante. (After G. F. Watts, R. A.)
884. Dr. Butler. (After Professor Herkomer, R. A.)
885. Canon Ellison. (After Professor Herkomer, R. A.)
886. Pauline. (After G. P. Jacomb-Hood.)
887. Napoleon. (After Greuze.)
888. In Fairyland. (After C. E. Halle.)
Strang, William, F. R. P. E., London.
889. The Earth Fiend.
890. Portrait.

DEPARTMENT K.—FINE ARTS.

891. Portrait.
 892. Portrait.
 893. Portrait.
 Thomas, Percy, London.
 894. The Old Tabard Inn, Southwark.
 895. The White Hart Inn, Southwark.
 Urwick, W. H., R. P. E., London.
 896. Sonning-on-Thames.
 897. The Woods in Winter.
 898. Culloden Field.
 899. Yorkshire Cottages.
 900. Clovelly.
 Watson, Charles J., London.
 901. Cheyne Walk, Chelsea, 1889.
 902. Campden, Gloucestershire.
 903. St. Jacques, Lisieux.
 904. St. Etienne du Mont, Paris.
 905. Rue Chanoinesse, Paris.
 906. Rue St. Martin, Bayeux.
 Wehrschmidt, Daniel A., Bushey.
 907. The Love Letter. (After Luke Fildes, R. A.)
 908. Marquis of Dufferin and Ava. (After Frank Holl, R. A.)
 909. General Sir Herbert Stewart. (After Frank Holl, R. A.)
 910. Earl of Yarborough. (After Frank Holl, R. A.)
 911. Farewell. (After P. H. Calderon, R. A.)
 912. Sir Edward Watkin, M. P. (After H. Herkomer, R. A.)

GROUP 144.

Chalk, Charcoal, Pastel and Other Drawings.

- Charlton, John, London.**
 913. An Impeding Catastrophe.
 914. A Carriage Accident.
 915. Halt! Charge of Lancers at Military Tournament.
 916. Ware Wire!
 917. Ludgate Hill; A Slippery Pavement.
 918. A Veterinary Examination.
 919. "Twixt the Devil and the Deep Sea."
 920. Musical Ride of the Seventeenth. Lancers.
 921. Horse Show; Harness Horses Trotting.
 922. Equestrians at a Meet of the Coaching Club, Hyde Park.
 923. Waiting for the Queen, Rotten Row.
 924. Ladies Tilting.
 925. Meet of the Devon and Somerset Stag-hounds.
 926. Cover for Christmas Number (Sledging).
 Crane, Walter, London.
 927. The Triumph of Labor.
 (Artist's proof of a woodcut.)
 928. Set of Original Drawings for Hawthorne's Wonder Book.
 929. The Legend of the Goose and Golden Eggs.
 1. Fortune. 2. Misfortune.
 Du Maurier, George, London.
 930. Six Pen and Ink Sketches—Originals of Cuts in "Punch."
 Gardner, W. Biscombe, Haslemere.
 931. Palace of Fontainebleau.
 Granby, The Marchioness of, London.
 932. The Lady Susan Keppel.

933. The Speaker of the House of Commons.
 Hare, St. George, London.
 934. Captives.
 Keene, Charles (the late).
 935. Polo for the People.
 936. Round the Studios.
 937. Impracticable.
 938. The Haunted Room.
 939. Wages.
 940. A Hungry Claimant.
 941. The Pictures.
 942. Reprisals.
 943. Overpressure.
 944. The Last Resource.
 945. Little Wife.
 946. Art.
 947. Directions.
 948. Bon Chienie.
 949. Irresistible.
 950. Oppression.
 951. Railway Risks.
 952. Our Village Industrial Competition.
 953. Deceivers Ever.
 954. Extremes Meet.
 Linton, Sir James D., P. R. I., London.
 955. Twelve Illustrations to Shakespeare's "Henry VIII."
 Overend, W. H., London.
 956. Sir Richard Greville in the "Revenge."
 "Sink me the ship, Master Gunner,
 Sink her, split her in twain,
 Let us now fall into the hands of God.
 Not into the hands of Spain."
 Five Illustrations to "In a Conning Tower."
 957. The Shannon Disabled Returning Home.
 958. Shell Bursting in "Majestic's" Battery.
 959. The Midshipman Watching the Torpedo.
 960. The Wounded Captain in the Conning Tower.
 961. The "Majestic" Ramming the Enemy's Ship.
 Stacey, Walter S., London.
 962. In Greek Waters.
 963. Drawings for the "Strand Magazine."
 Stott, William, of Oldham, London.
 964. Portrait of a Child.
 965. The Eiger.
 966. The Jungfrau.
 Swan, John M., London.
 967. Tigress Drinking.
 968. Puma (female).
 969. Lioness Walking.
 970. Indian Leopards.
 971. Polar Bear.
 972. Lioness Walking.
 Tenniel, John, London.
 973. A Waiting Game.
 974. The Queen of the May.
 975. Innings Closed.
 976. When Greek Meets Greek.
 977. The Political "Johnny Gilpin"—The Start.
 978. The Political "Johnny Gilpin"—The Finish.
 979. "William the Wheelman."
 980. "Will They Work."
 981. Back.
 982. The White Elephant.

GREAT BRITAIN.

- Weguelin, J. R., London.
 983. Illustrations to Anacreon.
 984. Illustrations to Catullus.

Architecture.

- Adams, Maurice B., F. R. I. B. A.,
 London, Glen Ridge, New Jersey,
 U. S. A.
 986. Bungalow, Nine-Mile Ride, Berks,
 England.
 987. Mausoleum, near Sydney, Australia, in
 Memory of the Hon. John Frazer.
 Aitchison, Prof. George, A. R. A.,
 London.
 988. Royal Exchange Assurance, 29 Pall
 Mall, S. W.
 989. The Arab Hall.
 990. Drawing Room.
 991. Small Drawing Room.
 992. Ceiling.
 993. Drawing Room.
 994. The Hall.
 995. New Drawing Room, London.
 Anderson, R. Rowand, LL. D., Edin-
 burgh.
 996. New Medical School, Edinburgh
 University.
 997. Catholic Apostolic Church, Edinburgh.
 998. Dumblane Cathedral.
 999. Govan Parish Church.
 1000. Central Station Hotel, Glasgow.
 1001. Scottish National Portrait Gallery,
 Edinburgh.
 1002. St. Paul's Church, Greenock.
 Ashlin, George C., R. H. A., Dublin.
 1003. Exterior View of St. Colman's Cathed-
 ral, Queenstown.
 1004. Interior View of St. Colman's Cathed-
 ral.
 1005. Exterior View of the O'Connell Mem-
 orial Church, Caherciveen, County,
 Kerry.
 1006. Interior View of the O'Connell Mem-
 orial Church.
 Aston-Webb and E. Ingress Bell,
 London.
 1007. Victoria Courts, Birmingham.
 1008. Metropolitan Life Assurance So-
 ciety's Offices.
 1009. Completion of South Kensington Mu-
 seum.
 1010. Pevensey, Shropshire.
 Belcher, John, London.
 1011. Design for South Kensington Mu-
 seum, Exterior View.
 1012. Design for South Kensington Mu-
 seum, Interior View.
 Binyon, Brightwen, Ipswich.
 1013. Sunderland Town Hall, View of the
 Exterior.
 Blomfield, Reginald, M. A., London.
 1014. Drawing of 20 James Street, S. W.
 1015. House and Grounds at Brockenhurst,
 Hants.
 1016. Proposed English Church at Berne.
 Brooks, James, V. P. R. I. B. A.,
 London.
 1017. Interior Looking East, Liverpool Ca-
 thedral.
 1018. West Exterior View, Liverpool Ca-
 thedral.
 1019. Southeast Exterior View, St. Mary's,
 Woolwich.

1020. Extension Northeast view, St. Mary's,
 Hornsey.
 1021. Southwest View, Holy Innocents',
 Hammersmith.
 1022. Mansions, Ruede Bord, Cape Town.
 Campbell, Douglas and Morrison,
 Glasgow.
 1023. Carnegie Free Library, Ayr, Scotland.
 Carøe, W. D., London.
 1024. St. John the Evangelist, Stanstead,
 Essex, Interior.
 1025. St. Sepulchre's, Holborn, Design for
 Organ.
 1026. Adelphi Bank New Buildings, Castle
 Street, Liverpool.
 1027. Design for Bronze Doors.
 Champneys, Basil, London.
 Harrow School.
 1029. Mansfield College, Oxford.
 1030. "Moxley," Holmbury, near Dorking,
 Surrey.
 1031. St. Mary Star-of-the-Sea Church,
 Hastings.
 Clarke, T. Chatfield, & Son, London.
 1032. New Buildings on the Duke of West-
 minster's estate, South Audley
 London.
 1033. Block of New Buildings on the Duke
 of Westminster's Estate, Nos. 385 to
 397 Oxford Street, London.
 1034. The New Bishopsgate Girl's School
 and Chapel, recently built in Spital
 Square, Bishopsgate Street.
 Cutler, Thomas W., F. R. I. B. A.,
 London.
 1035. Sculpture Gallery, Avery Hill.
 1036. Billiard Room, Avery Hill.
 1037. Renaissance Gallery, Avery Hill.
 1038. Picture Gallery, Avery Hill.
 1039. Drawing Room, Avery Hill.
 1040. Staircase, Avery Hill.
 1041. Turkish Bath Room, Avery Hill.
 1042. A Country House.
 1043. A Corridor.
 1044. A Card and Billiard Room.
 Deane, Sir Thomas N. & Son, Dub-
 lin.
 1045. Elevation of Design for the Imperial
 Institute.
 Edis, R. W., F. S. A., F. R. I. B. A.,
 London.
 1046. Constitutional Club, Northumberland
 Avenue.
 1047. Junior Constitutional Club, Piccadilly.
 1048. Convalescent Home and Hospital.
 Ernest, George, & Peto, London.
 1049. Collingham Gardens Houses, S. W.
 1050. East Hill, Ramsgate.
 1051. 47 Berkeley Square, Interior.
 1052. Shiplake on Thames, Interior of Hall.
 1053. Shiplake on Thames, Exterior of Hall.
 Fenning, Arthur R. G., London.
 1054. St. Matthew's Church, Blackburn,
 Lancashire.
 1055. St. Matthew's Church, Blackburn,
 Lancashire.
 1056. St. Paul's Church, Oswaldtwistle,
 Lancashire.
 1057. St. Luke's Church, Winnington,
 Cheshire.
 1058. St. Luke's Church, Winnington,
 Cheshire.

DEPARTMENT K.—FINE ARTS.

- Goddard, Paget, & Goddard, Leicester.
1059. An Architect's Home.
1060. Houses, Regent Street, Leicester.
- Gribble, Herbert A., A. R. I. B. A.
1061. Interior of the Oratory Church, Brompton.
1062. Altar of St. Philip Neri, the Oratory, Brompton.
- Hemmings, Frank, A. R. I. B. A., London.
1063. Albert Hall Estate.
- Honeyman, John, & Keppie, Glasgow.
1064. Premiated Design for Glasgow Art Galleries, Perspective View.
1065. Design for Glasgow Art Galleries, Part of Elevation to Large Scale.
- Horsley, Gerald C., London.
1066. Design for a Country Museum and Institute.
1067. A Small Country House.
1068. New Organ, Bottesford.
- Jackson, Thomas G., A. R. A., London.
1069. New Front of Brasenose College, in the High Street of Oxford.
1070. New Campanile for the Cathedral of Zara, in Dalmatia.
1071. New Tower and Spire for St. John's Church Wimbledon.
1072. The New Examination Schools and Buildings for Non-Collegiate Students in the High Street of Oxford.
1073. Decorated Case of a Grand Piano-forte.
- Leiper, William, F. R. I. B. A., A. R. S. A., Glasgow.
1074. A Scotch Mansion.
- Neale, James, F. S. A., F. R. I. B. A., London.
1075. Reredos and Altar, St. Peter's Church, Bushey Heath.
1076. Frogna! Gardens, Hampstead.
1077. St. Alban's Abbey, Herts.
1078. New Residences, Tunbridge Wells, Kent.
- Nevill, Ralph, F. S. A., London.
1079. Snowdenham, Surrey. Two views.
1080. Snowdenham, Surrey, Interior of Hall and Stairs.
1081. Lodge and Cottages, Warley.
1082. Cottage Block.
1083. House in Dartmoor.
- Pearson, John L., R. A., London.
1084. View of the Cathedral of Truro, When Completed—from the Southwest.
1085. The North Transept of Westminster, as Now Restored.
- Robson, E. R., F. S. A., London.
1086. Cross Erected in Memory of the Late John Wichcord.
1087. Exterior of the People's Palace at the East End of London.
1088. Interior of the Library and Reading Room of the People's Palace.
1089. Interior of the Queen's Hall of the People's Palace.
1090. Clock Tower at the People's Palace.
1091. View of the Royal Institute of Painters in Water Colors, Piccadilly, London.
- Scott, J. Oldrid, F. S. A., F. R. I. B. A., London.
1092. Design for the New Town Hall at Hamburg by the late Sir G. G. Scott and Mr. J. Oldrid Scott.
1093. Design for the New Town Hall at Manchester.
1094. Lahore Cathedral.
1095. Tower and Spire, Stoke Newington.
1096. Glasgow University, Central Tower.
1097. Falkland Island Cathedral.
1098. Sunningdale Parish Church.
1099. St. Paul's, Manchester.
1100. Organ, Halifax Parish Church.
- Simpson, Fred. M., London.
1101. Staircase.
- Spiers, R. Phene, London.
1102. No. 7 Chelsea Embankment.
1103. Mansion at Impney, in Worcester.
- Stevenson, John J., London.
1104. Kensington Court.
1105. St. Leonard's Church, Perth.
1106. Kenhill, Norfolk.
- Stokes, Leonard, London.
1107. Corpus Christi Priory Church, Manchester, Exterior.
1108. Corpus Christi Priory Church, Manchester, Interior.
1109. New Church, Folkstone.
1110. Broxwood Court, Hereford.
1111. St. Clare's Church, Liverpool.
- Street, Arthur E., London.
1112. Frame of Designs, by the late G. E. Street, R. A.
1113. Kingstone Church, Dorset.
1114. Northwest Porch, Bristol Cathedral.
1115. North Aisle, Bristol Cathedral.
- Tree, Philip Henry, F. R. I. B. A., Leonard's-on-Sea.
1116. Church Schools and Parsonage.
1117. Estate Cottages at Lunsford, Near St. Leonard's-on-Sea.
1118. Highland Mansions—Entrance, Front.
1119. Highland Mansions—The Garden, Front.
1120. House and Offices at Battle, Sussex.
1121. Proposed New Workhouse, Hastings.
1122. New Wesleyan Church, St. Leonard's Waterhouse, Alfred, R. A., London.
1123. Natural History Museum, South Kensington.
1124. National Liberal Club, Thames Embankment.
- Watson, T. L., F. R. I. B. A., Glasgow.
1125. Offices of the Glasgow Evening Citizen Newspaper.
1126. Royal Clyde Yacht Club, Hunter's Quay.
1127. Design for Glasgow Municipal Buildings.
- Webb, George W., Reading.
1128. The "Roebuck" Hotel on the Thames, Maple-Durham.
1129. Memorial Fountain, Reading.
- Young, William, London.
1130. Municipal Buildings, Glasgow.

HOLLAND.

GROUP 140.

Paintings in Oil.

1. Still-life.
2. Flowers.
3. **Apol, Louis, The Hague.**
4. Autumn; Sunset.
5. Near the Water-mill.
6. Winter Morning.
7. Thaw, on the River Ysel.
8. **Artz, D. A. C., deceased 1890, The Hague.**
9. Girl Knitting
10. The Pet Lamb.
11. Fall in the Fields.
12. Idle Hours on the Dunes.
13. Girl Sleeping on the Dunes.
14. **Bakhuyzen, Miss G. J. van de Sande, The Hague.**
15. Plums.
16. Roses.
17. **Bakhuyzen, Julius J. van de Sande, The Hague.**
18. Summer Morning.
19. Driving the Cattle Homeward.
20. Sunset in Drenthe.
21. **Bastert, N., Amsterdam.**
22. The Fall on the River Vecht.
23. The Bridge at Nederhorst.
24. Little Breeze on the Vecht.
25. The White Sail.
26. **Berg, Joan, Paris.**
27. Spring.
28. **Bilders van Bosse, Mrs. M., The Hague.**
29. Littlewood Near Oosterbeek.
30. **Bisschop-Swift, Mrs. K., Scheveningen.**
31. Motherly Cares.
32. **Blommers, B. J., Scheveningen.**
33. At Breakfast.
34. Washing Day.
35. On the Beach.
36. Fishing for Shrimps at Scheveningen.
37. **Bock, Theophile de, The Hague.**
38. Rising Moon.
39. Beech Trees.
40. Summer Evening.
41. **Boks, E. J., Antwerp.**
42. Surprised.
43. **Bosboom, J. dec'd 1891, The Hague.**
44. Dutch Reformed Church, Haarlem.
45. Synagogue, Amsterdam.
46. **Breitner, G. H., Amsterdam.**
47. Dutch Artillery.
48. Dutch Cavalry.
49. **Calissendorf, A., Ryswyk.**
50. In the Alms House at Ryswyk.
51. Lawn-tennis.
52. **Cate, S. J. ten, Paris.**
53. Night Scene at Havre.
54. The Thames, Floodtide.
55. The Thames, Lowtide.
56. Dutch Landscape.
57. **Chattel, Fred J. du, The Hague.**
58. The Lake in the Wood.
59. On the River (Vecht).
60. A Bright Day.
61. **Dommershuizen, Chr., The Hague.**
62. The Maas near Rotterdam.
63. **Eerelman, O., The Hague.**
64. Horse Fair at Rotterdam.
65. Winter in Holland.
66. St. Bernard Dog.
67. **Essen, Jan Van, Scherpenzeel.**
68. Going Homeward.
69. A Dutch Farmhouse.
70. **Flier, H. F. vander, Baarn.**
71. Flock of Sheep; Afternoon.
72. **Frankfort, Ed., Amsterdam.**
73. Writing of Divorce.
74. **Gabriel, P. J. C., Scheveningen.**
75. Windmills at the Moerdyk (Holland).
76. The Harvest near Utrecht.
77. A Corner in the Village, Veenendaal.
78. A Windmill in the Lowlands.
79. **Haas, J. H. L. de, Brussels.**
80. Landscape with Cattle.
81. Donkeys on the Shore (Picardy).
82. Cows on the Dunes.
83. Cows Resting.
84. Cows Resting.
85. **Haaxman, P., The Hague.**
86. Summertime.
87. A Pleasant Correspondence.
88. **Hamel, W., Rolde.**
89. Harvest Time.
90. **Heemskerck van Beest, J. E. van, The Hague.**
91. On the Zuyder Zee.
92. **Henkes, Gerke, Voorburg.**
93. The Benevolent Society, "Dorcas."
94. The "Regenten."
95. The Knitting School.
96. In the Distillery.
97. A Dutch Peasant.
98. **Hogendorps' Jacob, Mrs. A. van, The Hague.**
99. Roses.
100. **Hoynck van Papendrecht, J., Amsterdam.**
101. Artillery Review at Utrecht.
102. **Hugenholtz, Miss A., Amsterdam.**
103. On the Heath.
104. **Israels, Jozef, The Hague.**
105. Alone in the World.
106. Fisherwomen at Zandvoort.
107. Sweet Home.
108. Summer Day on the Shore.
109. Type of a Fisherman.
110. **Jansen, H. W., Amsterdam.**
111. In the Docks (Amsterdam).
112. Canal at Amsterdam.
113. **Kate, Mari ten, The Hague.**
114. From the Window at Christmastide.
115. **Kate, Mz. Johan M. ten, The Hague.**
116. On the Zuyder Zee, Isle of Marken.
117. Sailing Out.
118. **Kever, J. S. H., Amsterdam.**
119. In the Garden.
120. A Little Greedy-Gut.

DEPARTMENT K.—FINE ARTS.

- Klinkenberg, K., Amsterdam.**
 86. Canal at Amsterdam (Sunset).
 87. Drawbridge at Amsterdam.
 88. An Old Tower at Amsterdam.
 89. Canal at Alkmaar.
Maarel, M. vander, The Hague.
 90. A Flower Woman from Haarlem.
 91. A Cook.
Mar, D. de la, Amsterdam.
 92. Peasant Girl.
 93. In July.
Maris, Jacob, The Hague.
 94. The Two Mills.
 95. Between the Hague and Delft.
 96. Dordrecht, Sun Effect.
 97. Fishing Shells.
 98. Canal at Rotterdam.
Maris, William, Voorburg.
 99. Under the Willows.
 100. Milking Time.
 101. Cow and Calf.
 102. Dutch Pasture.
 103. Duck Pond.
Martens, W. J., Berlin.
 104. The original of "Love's Dream."
Martens, Willy, the Hague.
 105. A Cosy Corner.
 106. At the Well.
 107. Housework.
Mauve, Anton (1888), Laren.
 108. Woodcarts on the Heath.
 109. Cows Going Home.
 110. Pasture Near the Dunes.
 111. Ploughing the Fields (Drenthe).
Melis, H. J., Clarlois, near Rotterdam.
 112. Neighborhood of Rotterdam.
 113. Washing Day.
Mesdag, H. W., The Hague.
 114. At Anchor.
 115. Morning on the Shore at Scheveningen.
 116. Ready to Sail Out.
 117. Summer Morning at Scheveningen.
 118. In Danger.
Mesdag van Houten, Mrs. S., The Hague.
 119. Still Life.
 120. Moonlight on the Heath.
 121. Cottage.
 122. On the Heath (Evening Effect).
Mesdag, Kz. T., Scheveningen.
 123. Water Mill at Ruurlo (Gelderland).
 124. View on The Hague from Scheveningen.
 125. In the Dunes.
 126. Sheepcot at Loenen (Gelderland).
Mesdag van Calcar, Mrs. G., Scheveningen.
 127. The Village Road (Vries, Drenthe).
 128. Street at Hattem.
Meulen, F. P. ter, The Hague.
 129. A Sandy Road.
 130. At the River Side.
 131. Winter.
Moes, Miss Wally, Amsterdam.
 132. Praying Together.
Muller, Gerard, Amsterdam
 133. Disappointed.
 134. Afternoon Tea.
Nakken, W. C., The Hague.
 135. Farmhouse in Limburg.
 136. Farmhouse in Welsden.
Neuhuys, Albert, The Hague.
 137. A Sober Meal.
 138. The Mother's Delight.
 139. Dutch Woman and Child.
 140. It is the Last One, Mother.
 141. Rocking the Cradle.
 142. Sunlight.
Nibbrig, F. Hart, Amsterdam.
 143. In the Tulip Fields near Haarlem.
Offermans, T., Laren.
 144. The Village Carpenter.
Oppenoorth, W., The Hague.
 145. The Pond in the Wood of The Hague.
 146. A Mill in the Swamp.
Poggenbeek, George, Amsterdam.
 147. Between Two Dikes.
 148. Sunset.
 149. In the Meadows of Holland.
 150. Near the River.
Roeleofs, W., The Hague.
 151. Mills near Rotterdam.
 152. A Dutch Canal.
 153. Pasture Grounds near the Dunes.
Ronner, Mrs. Henriette, Brussels.
 154. Coquetry.
 155. Mischief.
 156. In Confidence.
Roosenboom, Mrs. Marguerite, Voorburg.
 157. A Garland of Roses (upright).
 158. A Garland of Roses (oblong).
Sadee, Ph., The Hague.
 159. On the Beach at Scheveningen.
 160. Shrimp Fishing at Scheveningen.
Schwartz, Miss Thérèse, Amsterdam.
 161. The Orphan Girls at Amsterdam.
 162. Portrait of My Mother.
 163. Portrait of Myself.
Tholen, W. B., The Hague.
 164. Through the Woods.
 165. Skating.
 166. Autumn.
Valkenburg, H., Amsterdam.
 167. Will You Give Me a Flower?
 168. Pleasant Gatherings.
Veder, Hendrik, Rotterdam.
 169. View at the Harbor of Flushing.
Verveer, Elchanon, The Hague.
 170. Here They Are.
 171. Expecting the Return of the Boats.
 172. Gazing into the Horizon.
Veth, Bas, Dordrecht.
 173. On the River in December.
Vogel, J. G., Voorburg.
 174. In the Cornfields (Drenthe).
Vos, Hubert, London.
 175. Portrait of H. M. the Queen of Holland.
 176. Old Women's Almshouses.
 177. Poor People.
 178. Angelus.
 179. Interior of a Farmhouse.
 180. Russian Peasant.
Vrolyk, Jan, The Hague.
 181. Evening near the Farmhouse.
 182. Cow Resting.
Weele, H. J., van der, The Hague.
 183. Ploughing (Summer).
 184. Ploughing (Spring).
Weissenbruch, J. Hendrik, The Hague.
 185. Village Interior.
Wysmuller, J. H., Amsterdam.
 186. A Dutch Town.
 187. Winter Evening (Monnikendam).
 188. Winter Evening (Amsterdam).

HOLLAND.

189. **Zilcken, Ph., The Hague.**
 Golden Leaves.
 190. **Zwart, W. de, The Hague.**
 Father's Darling.
 191. A Village Corner.
- GROUP 141.**
- Paintings in Water Colors.**
196. **Apol, Louis, The Hague.**
 Winter Night.
 197. A Snowy Road.
Artz, D. A. C., deceased, 1890, The Hague.
 198. A Fisherwoman.
 199. Sorrow.
 200. Sorrow (first sketch).
Bakhuyzen, Miss G. J. van de Sande, The Hague.
 201. White Roses.
Bastert, N., Amsterdam.
 202. Near the Farm.
 203. Winter.
Bilders van-Bosse, Mrs. M., The Hague.
 204. Under the Beeches.
 205. An Alley of Beech Trees.
Blommers, B. J., Scheveningen.
 206. The Frugal Meal.
 207. Mother's Darling.
Bock, Theophile de, The Hague.
 208. Mill and River.
 209. Landscape.
Borselen, J. W. van., deceased 1892, The Hague.
 210. Dutch Landscape.
 211. A Nook of the Farm.
Bosboom, J., deceased 1891, The Hague.
 212. Church Interior.
 213. Farm Interior.
 214. Landscape in the Dunes.
Cate, S. J., ten, Paris.
 215. La Rue de la Chapelle, Paris.
 216. Eight different Views of Paris.
 217. Six Different Views of Paris.
 218. Summer Evening (Finistere).
Chattel, Fred J. du, The Hague.
 219. Autumn Evening.
 220. The Fisherman's Home.
Donders Grandmont, Mrs. Hubrecht, Taormina, Sicily.
 221. A Tired Nurse.
 222. Worn Out.
Eerelman, O., The Hague.
 223. Little Pugs.
Gabriel, P. J. C., Scheveningen.
 224. The White House near Deventer.
 225. A Dutch Mill.
Henkes, Gerke, Voorburg.
 226. A Confidence.
 227. Blacksmith Shop.
 228. View of Delft's Haven.
Hoeven, Miss C. Pruys van der, The Hague.
 229. An Interesting Novel.
Israels, Jozef, The Hague.
 230. Motherly Cares.
Jacob, Mrs. A. Hogendorp, The Hague.
 231. Chrysanthemum.
Josselin de Jong, P. de, The Hague.
 232. Autumn.
 233. Sand Barge.
- Kate, Mari ten, The Hague.
 234. A Bombardment.
 235. The Chickens, Isle of Marken.
Kate, Mz. Johan M. ten, The Hague.
 236. The Coffee-Call.
 237. On the Shore.
Kever, J. S. H., Amsterdam.
 238. The Little Sister.
 239. The Old Gardener.
 240. The Young Gardener.
Klinkenberg, K., Amsterdam.
 241. Canal at Amsterdam.
 242. Canal at The Hague.
Koster, A. L., Haarlem.
 243. The Last Autumn Leaves on The Ancient Bulwarks of Haarlem.
 244. Bridge on The Maas at Maastricht.
Maarel, M. van der, The Hague.
 245. On the Altar.
Maris, Jacob, The Hague.
 246. The Old Nurse.
Maris, William, Voorburg.
 247. Young Pigs.
 248. Ducks.
Melis, H. J., Charlois, near Rotterdam.
 249. Grandmother and Granddaughter.
 250. Complaints.
Mesdag, H. W., The Hague.
 251. In Danger.
 252. On the Beach at Scheveningen, Twilight.
 253. On the Dutch Coast.
Mesdag van Houten, Mrs. S., The Hague.
 254. Moonlight.
 255. Heath.
 256. Still Life.
Mesdag Kz., T., Scheveningen.
 257. After Harvest.
 258. Mill at Leende (Noord Brabant).
Mesdag van Calcar, Mrs. G. Scheveningen.
 259. Violets.
Meulen, F. P. ter, The Hague.
 260. Sheep Grazing.
 261. In the Snow.
Moes, Miss Wally, Amsterdam.
 262. In a Village Church.
 263. Just Awakened.
Nakken, W. C., The Hague.
 264. Farmhouse in Limburg.
 265. Farmhouse in Zuyd-Holland.
Neuhuys, Albert, The Hague.
 266. The Mother and Her Children.
Offermans, T., Laren.
 267. On the Threshold.
 268. In the Hothouse.
Oppenoorth, W., The Hague.
 269. Cut Trees.
 270. Dutch Pasture Ground.
Poggenbeek, Geo., Amsterdam
 The Duck Pool.
Rochussen, C., Rotterdam.
 272. Before the Races.
Roelofs, W., The Hague.
 273. Mill at Abcoude (Holland).
 274. Water Gulls in the Swamps (Holland).
Roelofs, W., Jr., The Hague.
 275. Still-life.
Roosenboom, Mrs. Marguerite, Voorburg.
 276. A Branch of Roses.

DEPARTMENT K. FINE ARTS.

277. Iris.
 278. Helianthus.
Sadeë, Ph., The Hague.
 279. After the Storm.
Schutz, W. J., Middelburg.
 280. Low Tide on the Westerschelde.
Stortenbeker, P., The Hague.
 281. Under the Trees.
 282. Milking-time.
Valkenburg, H., Amsterdam.
 283. Mother and Child.
 284. Neighbors.
 285. Woman Reading.
Veder, Hendrik, Rotterdam.
 286. View of the Maas.
 287. View of the Old Harbor of Flushing.
Verveer, Elchanon, The Hague.
 288. To the Market.
 289. Happy Family.
Veth, Bas, Dordrecht.
 290. Discharging a Steamer.
 291. River Scene in December.
Voerman, J., Hattem.
 292. Still-life.
 293. Violets.
Vrolyk, Jan, The Hague.
 294. Cow-herders.
 295. Cow House.
Weel, H. J. van der, The Hague.
 296. Sand Cart.
 297. In the Snow.
Weele, H. J. van der, The Hague.
 298. A Sandy Road after A. Manver. (Unpublished; plate for sale.)
Weissenbruch, J. Hendrik, The Hague
 299. Landscape (Holland).
 300. A Sunny Day (Holland).
 301. A Young Artist.
 302. At the Dutch Coast.
Wysmuller, J. H., Amsterdam.
 303. Saw-mills at Amsterdam.
 304. A Dutch Landscape.
Zilcken, Ph., The Hague.
 305. The Bridge. (After J. Maris.)
 306. J. L. Motley. (After C. Bisschop.)
 307. Evening. (After H. W. Mesdag.)
 308. Primavera. (After M. Maris.)
Zwart, W. de, The Hague.
 309. 8 Etchings in one frame.
 a Landscape.
 b Landscape.
 c Figure.
 d Landscape.
 e Figure.
 f Workmen.
 g Man and Boat.

- h* Mill.
 310. 4 Etchings in one frame.
 j Landscape (Drenthe).
 k Landscape.
 l Landscape.
 m Near The Hague.
 311. 7 Etchings in one frame.
 n Landscape.
 o Rotterdam.
 p Farmhouse
 q Child.
 r Milking Time.
 s Landscape.
 t Street.
 312. 3 Etchings in one frame.
 u Digging Sand.
 v Canal at The Hague.
 w Barn.

GROUP 143.

Engravings and Etchings, Prints.

- Croiset van der Kop, Miss J., The Hague.**
 313. 2 Still-lives in one frame.
 314. 2 after H. W. Mesdag in one frame.
 315. Japanese Bronzes.
 316. 2 Figure and Boats at Scheveningen in one frame.
Dake, Prof. C. L., Amsterdam.
 317. Portrait of H. M. the Queen of Holland.
 318. Portrait of Ludwig van Beethoven.
Houten, Miss B. E. van, The Hague.
 319. After Jules Dupre.
 320. After Eugène Delacroix.
 321. After J. F. Millet.
 322. After Blommers.
 323. Study of Birds.
 324. 6 etchings in one frame.
 325. 3 etchings in one frame.
 326. 4 etchings in one frame.
Koster, A. L., Haarlem.
 327. 10 original etchings (artist's proofs) of picturesque views along the canal from The Hague to Delft.
 328. Etching after the picture of Beguin, "The Quarry" in the museum "Mauritshuis" at The Hague. (Artist's proof.)
Storm van Gravesande. C. N., Brussels.
 329. Boats on the Meuse.
 330. Breakwater.
 331. The Pier.
 332. Flushing.
 333. The Meuse off Dordrecht.
 334. A Dead Calm.

ITALY.

GROUP 139.

Sculpture.

- Albacini, A., Rome.**
 1. Roman Type. (Marble bust.)
 2. Pompeian Flower Girl. (Marble.)
 3. Pompeian Water Girl. (Marble.)
 4. Innocence. (Marble statue.)
 5. Bathing Woman. (Marble statue.)
 6. Roman Type. (Marble bust.)
Allegretti, A., Rome.
 7. Eve After Sin.
Apolloni, A., Rome.
 8. Beatrice. (Marble medallion.)
Apolloni, A., Rome.
 9. Hon. Chauncey M. Depew. (Marble bust.)
 10. Mrs. Julia Ward Howe. (Marble bust.)

ITALY.

11. Plaster Cast of Robert Burns' Monument.
12. Original Design in Plaster for a monumental fountain; Man Struggling with Marine Monsters.
13. Love's Dream. (Marble head.)
14. Mater Purissima. (Plaster statue.)
15. American Mythology. (Marble statue.)
Argenti, G., Milan.
16. Martyr. (Marble statue.)
17. Modesty. (Marble bust.)
Barbella, C., Francavilla.
18. Ten Small Terra Cottas.
Bastiani, Florence.
19. Vintage.
Bertone, A., Florence.
20. Beneficiata.
21. Fruit Seller.
Bottinelli, A., Rome.
22. Etrusca. (Marble statue.)
23. The Arts. (Six marble statuettes—Music, Poetry, Painting, Sculpture, Architecture and Dance.)
24. First Communion. (Marble bust.)
25. The Kiss. (Marble statue.)
Calvin, P., Milan
26. Othello.
27. Mignon.
28. Gipsy.
Calzolari, O., Florence.
29. Fraternal Love. (Marble group.)
Cambi, U., Florence.
30. Mamma's Jewel.
31. On the Micide.
Canonica, P., Turin.
32. Surprise.
33. After the Vow.
Dausch, C., Rome.
34. Night. (Marble.)
35. Day. (Marble.)
De Paoli, L., Pordenone.
36. Icarus. (Plaster Statue.)
Fambri, R., Venice.
37. A Duel. (Bronze.)
Ferrari, E., Rome.
38. Lincoln Dying. (Marble statue.)
39. Lesbia (Marble bust.)
Fiasehi, Florence.
40. High Wave.
41. Gipsy.
Gariboldi, E., Milan.
42. First Gain.
43. Minstrel.
Galli, R., Milan.
44. Opus.
45. Pastime.
46. A Page.
47. Directoire.
48. A Noble Vow.
49. The Piper.
50. Modesty.
51. Coquette.
52. Pigeon's Trap.
53. Sweet Remembrances.
54. The Widow.
55. Heroine.
56. Christopher Columbus.
Galimberti, G., Milan.
57. Alpine Guide.
Gindici, P., Milan.
58. First Token.
Gonnella, E., Milan.
59. Curiosetta.
60. Rosa Donato, Sicilian Heroine.
Lavezzari, V., Genoa.
61. The Fisher Boy.
Luzi, A., Rome.
62. Trasteverina, Roman Type. (Bronze bust.)
63. Sortie de Bal. (Bronze statuette.)
Luzi, A., Rome.
64. Arab Shepherd. (Terra-cotta bust.)
65. President Cleveland. (Terra cotta bust.)
Mattoni, A., Ravenna.
66. Disinherited. (Plaster group.)
67. Sappho. (Marble statue, fragment.)
Monzini, G., Milan.
68. Butterfly.
69. Modesty.
70. Marguerite.
Olivari, G., Genoa.
71. A Wreath (bronze).
Pardo, V., Rome.
72. Christopher Columbus. (Bronze bust.)
Ramazzotti, L., Padova.
73. The Poor Flower Girl. (Marble statue.)
74. Springtime, Song. (Marble bust.)
Ramazzotti, T., Padova.
75. Dream. (Bronze bust.)
Soeboeck, F.
76. Faun and Bacchante.
Soldini, A., Milan.
77. A Thought. (Marble bust.)
Tabacchi, O., Turin.
78. Baigneuse.
79. Tuffolina.
Trentanove, G., Florence.
80. Mrs. Alfred G. Harrison. (Marble bust portrait.)
81. The Last of the Spartans. (Marble statue.)
Troubeskoy, P., Milan.
82. Garibaldi on Horseback.
83. Indian Warrior.
84. Bedouin.
85. Melancholy.
Ventura, A., Milan.
86. Incroyable. (Marble statuette.)
Vignetti, I., Florence.
87. Little Shepherd.
Ximenes, A., Palermo.
88. Mountaineer Piper.
Zucehi, C., Florence.
89. Rebecca.

GROUP 140.

Paintings in Oil.

- Aly, Consoli, Florence.**
90. The Court Astrologer.
Armenise, L.
91. The Village Fête.
Banti, E., Florence.
92. The Twilight.
Barbarini, S.
93. Dead Water.
94. The Train is Coming.
95. Sketches From Nature.
Barucci, P., Rome.
96. On the Roman Appennines. (Lake of Scanno.)
Battistini, Aucona.
97. The Game of Pallina.
98. Dying.
Battaglia, D., Naples.
99. Stable with Cattle.

DEPARTMENT K.—FINE ARTS.

100. Pergolese Rehearsing his Stabat.
Bazzani, L., Rome.
101. At the Fountain. (Pompeii.)
102. In the Peristilium. (Pompeii.)
Bedini, P., Bologna.
103. The Anniversary.
104. The Favorites.
105. Between Two Fires.
106. Victims of Christmas.
Belinoba, Leghorn.
107. The Lady of The Pearls.
Berti, G., Venice.
108. The Banks of the Brenta, after Child's
Harold's Pilgrimage.
Boldini, G., Paris.
109. Three Portraits.
110. An extra Team
Bompiani, A., Rome.
111. In the Woods.
112. Playing truant.
113. On the Sly.
Bordignon, N., Venice.
114. At the Country Inn.
115. Emigrants.
116. Mathilda.
Bottero, G., Turin.
117. Boatmen's Canal.
118. Mestre Canal.
119. The Jurors.
Bruenn, L., Rome.
120. A Summer Afternoon in a Roman Villa
121. The First Born.
122. Music Hath Charms.
Calderini, M., Turin.
123. Painting.
Capone, G., Maiori.
124. Curiosity. (Costume of Maiori.)
125. Summer.
126. Winter.
127. Hush, There is Sister.
128. A Good Piece of Game.
Carcano, F., Milan.
129. Ideal Evening.
130. Alms for Church.
131. Lombard Plain.
132. Harvest of Indian Corn.
133. At Chioggia.
134. Iseo Lake.
135. The Believers.
136. At Asiago.
137. Ignorance.
138. Fall of the Balloon.
139. The Snow Fall at Pescarenico.
140. Rest of Fishermen at Chioggia.
141. A Country Family.
142. Arzago.
143. Study.
144. Sunset.
145. Four Different Subjects.
Cei, C., Florence.
146. Oil Painting.
Ciardi, G., Venice.
147. Southwest Wind.
148. Spring Clouds.
149. Basin of St. George.
150. Sunset at Venice.
151. On the Lagoon.
Coen, S., Venice.
152. Girls of the People (Venice).
Coleman, F., Rome.
153. Queen Catherine of England.
Corelli, A. Rome.
154. In the Woods.
155. The Angelus on St. Peter's Day.
(Roman Harvest.)
Cortese, Naples.
156. The Morning.
157. Paestum.
Corteggiani, M., Palermo.
158. Capucines Catacombs.
Corrodi, H. Rome.
159. The Convent of St. Lazaro.
160. Overflow of the Nile at the Pyramids.
161. The Tower of Charles V at Spezia.
162. Fishermen at Their Shrine.
Costa, A., Genoa.
163. Side of St. Lorenzo Cathedral in Genoa.
Concos, L., Milan.
164. Oil Paintings.
D'Andrea, F., Venice.
165. Flora.
166. Surprise.
Dall'Oca, Bianca A., Verona.
167. The Quadrille.
DaMolin, O., Venice.
168. A Man's Head.
169. The Ill Fed.
DeMartin, G., Naples.
170. Flower Market at Pompeii.
DeTommasi, P., Rome.
171. Golden Dreams.
DeMaria, Bergler E., Palermo.
172. Sicilian Landscape.
DiGiovanni, L., Palermo.
173. Painting.
Dovizielli, Rome.
- 173½. Still Life.
174. Still Life.
Fedreghini, P., Sinigallia.
175. The Niagara Falls.
176. The Niagara Rapids.
Fillippini, Milan.
177. Alpine Calm.
178. Four Impressions of Venice.
Fragiacomo, P., Venice.
179. Idyl on the Lagoon.
180. The Little Amalia.
181. Summer Clouds.
Frigeri, Bologna.
182. Garibaldi Sailing for Marsala.
Gabrini, P., Rome.
183. At Sea.
184. XII October, 1492. (In the convent of
La Rabida.)
Gallo, G. B., Florence.
185. Family Affections.
Gasperini, L., Venice.
186. Golden Wedding.
187. Thrown Off.
Giannone, N., Palermo.
188. Painting.
Gioli, L., Florence.
189. Pisan Campagna.
Guardabassi, G., Perugia.
190. His Holmess Leo XIII, the latest
portrait, painted from life in the
Vatican, January, 1893.
Guardabassi, G., Rome.
191. The Mayor's Wedding.
192. The Old Gipsy's Prediction.
Guerra, A., Badia di Cava.
193. Beatrice Cenci's Last Moments.
194. Raphael and the Cardinal Sigismondo
Conti.
195. Roman Flower Girl.
196. Good Fortune Teller.

ITALY.

197. Costume of Capri.
 198. The Sanctuary of Cava dei Tirenni.
Guerrieri, A., Florence.
 199. Declaration of Love.
Juglaris, T., Milan.
 200. The Prayer on the Mountain.
Joris, P., Rome.
 201. Recreation in the Country.
 202. The Grandfather's Day.
Loiacono, F., Palermo.
 203. Two Sicilian Landscapes.
Larini, H., Palermo.
 204. Painting.
Laucerotto, L., Venice.
 205. Regatta at Venice.
 206. Madonna.
 207. Vanity Fair.
Lombardo, Calamica G., Palermo.
 208. Painting.
Mancia, L., Palermo.
 209. Painting.
Mancini, F., Naples.
 211. Charge of Cavalry.
Malaspina, A., Milan.
 212. Two Paintings.
Mariani, C., Rome.
 213. The Angel of Music.
 214. Yo Triumphant.
Mariani, M., Rome.
 215. Rebecca. From Scott's Ivanhoe.
 216. Two Flowers.
Mariani, P., Milan.
 217. Five Paintings.
Martinetti, M., Rome.
 218. Malaria.
Milesi, A., Venice.
 219. Papa's Boat.
Mollica, Naples.
 220. Rivals.
Mongili, A., Florence.
 221. Delia.
Moradei, A., Ravenna.
 222. Baby's Inducements.
 223. Would You Like My Rose?
 224. Family Joys.
Menacazzi, C., Venice.
 225. Alpine Landscape.
Musso, G., Palermo.
 226. Visit at the Temple.
Nani, V., Venice.
 227. Consequences of Vice.
 228. Teasing Surprise.
Nobili, R., Florence.
 229. Listening.
 230. The Mass in St. Mark's of Venice.
Novo, S., Venice.
 231. Fruit Seller in Venice.
 232. The Want of All.
 233. Fruit Shop in Venice.
Panerai, R., Florence.
 234. Landscape with Cattle.
Petiti, F., Rome.
 235. Sorrento Marine.
Prati, E., Aniedo.
 236. First Flowers in Venice.
Pusterla, A., Milan.
 237. Painting.
Quaranta, G., Milan.
 238. Painting.
Ragusa, E., Palermo.
 239. Fled Away.
 240. The Giulia.
Rapetti, C., Milan.
 241. Painting.
Reycind, E., Turin.
 242. On the Po Embankment at Turin.
Rinaldi, C., Florence.
 243. Hopeless.
Rocchetti, Torres A., Palermo.
 244. Painting.
Roi, P., Venice.
 245. Vanity.
 246. The Friends of Once.
Rossi, Florence.
 247. The Stable.
Ricci, F., Rome.
 248. Rehearsing the Lesson.
 249. Interrupted Nap.
 250. Sweet Remembrances.
Riols, Palermo.
 251. Painting.
Salvadori, R., Milan.
 252. 3 Paintings.
Sartorelli, Venice.
 253. On the Lagoon.
Satini, P., Florence.
 254. Interior.
Santoro, R., Naples.
 255. In the Bay of Naples.
 256. Gipsies.
Savius, A., Bologna.
 257. Post Nubile Phœbus.
 258. In the Fields.
Scarpinato, F., Palermo.
 259. Oil Painting.
Serena, L., Treviso.
 260. Stall.
Spence, W., Florence.
 261. Oil Painting.
Simoni, G., Rome.
 262. Oriental Woman on the Terrace.
Stefani, L., Milan.
 263. Painting.
 264. Painting.
Tano, E., Florence.
 265. Tuscan Country.
Tarenghi, E., Rome.
 266. Contemplation.
Ferrara, O., Naples.
 267. Faith.
Tiratelli, A., Rome.
 268. Herd of Sheep Crossing the Roman Campagna.
Tom, Milan.
 269. Painting.
 270. Painting.
 271. Painting.
Tommasi, A., Leghorn.
 272. Return From the Market
 After Sunset.
Tuminetti, A., Milan.
 274. Oil Paintings.
Trombone, A., Naples.
 275. Landscape.
Van Elven, P. T., Milan.
 276. Caravan by the Dead Sea.
 277. Market at Chaumont.
Vollaro, P., Naples.
 278. A Moment of Rest.
Wolf, Venice.
 279. In the Kitchen.
Zanetti, G., Venice.
 280. The Garden of Venice.
 281. The Island of Malamocco and Torcello.

DEPARTMENT K.—FINE ARTS.

282. Canal of Torcello.

GROUP 141.**Paintings in Water Colors.**

Aureli, G., Rome.

283. Presentation of Monseigneur de Richelieu to Henri IV of France.

Battaglia, A., Rome.

284. Mower Girls in the Campagna.

Crisafi, N., Palermo.

285. Monte Pellegrino. (Palermo.)

286. Guadagna on River Oreto.

Corelli, A., Rome.

287. Woman of the Latium.

288. Man of the Latium.

289. Serenade.

DeTommasi, Rome.

290. Making Ready for the Procession.

291. The Best of the Booty.

292. Say, Yes.

293. Puzzled.

Guardabassi, G., Rome.

294. Scholar Monk.

295. Holy Water Cup, St. Peter's Church, Rome.

Martinetti, M., Rome.

296. Beggar.

Pennachini, D, Rome.

297. Baby is No More!

298. Tarantella.

Simoni, G., Rome.

299. Market at Sorrento.

300. The Last Days of the Ramadan.

Tiratelli, C., Rome.

301. The Patron Saint's Day.

GROUP 144.**Chalk, Charcoal, Pastel and Other Drawings.**

Capranica del Grillo G.

302. Nennella.

303. Thecla.

304. Truth.

JAMAICA.

GROUP 140.**Paintings in Oil.**

Lee, Mrs. L., Chapelton.

1. Paintings.

- Thompson, Charlton, Morant Bay.

2. Paintings.

GROUP 141.**Paintings in Water Colors.**

Bland, Mrs., Trinityville.

3. Paintings of Flowers.

JAPAN.

GROUP 139.**Sculpture.**

Bunzo, Fujita, Tokio.

1. Plaster cast.

Hiromu, Okada, Tokio.

2. Bronze group.

Ichitaro, Morimura, Tokio.

3. Copper art work.

Kanetaro, Imai, Tokio.

4. Bronze cast.

Kaneya, Miyashita, Tokio.

5. Marble. (Sculpture.)

Koun, Takamure, Tokio.

6. An Old Monkey. (Sculpture.)

Kuhe, Hayashi, Tokio.

7. Bronzes.

Masakichi, Suzuki, Tokio.

8. Bronzes.

Tadaichi, Shiotsu, Shimane.

9. Chased picture frame.

Teruchika, Tamino, Toyama.

10. Incense burner.

Totarō, Kikuchi, Tokio.

11. Bronzes.

Tsuginori, Kozaki, Tokio.

12. Bronzes.

Tsunetaro, Nakamura, Tokio.

13. Plaster casts.

Yazaemon, Yokoyama, Tokio.

14. Bronzes.

Yeikichi, Hayashi, Tokio.

15. Bronzes.

GROUP 141.**Paintings in Water Colors.**

16. A collection of 186 paintings in water colors after the Japanese style, no object titles being furnished:

Sinjiro Ikeda, Jimpachi Ito, Shume Iwasaki, Yoshibumi Inouye, Ryotaro Hara, Tadakuni Hashimoto, Motoharu Nishiwaki, Nankoku Osawa, Kunitaro Keneda, Masanobu Kano, Yubi Tanaka, Ryuzaburo Takahashi, Osamu Tsuchida, Mokichi Nagamine, Seitaro Nagase, Kokoku Murata, Yoshio Muraska, Yashiro Ujii, Bunkyo Nomura, Beisen Kubota, Fuko Matsumoto, Hono Fukuda, Tama Kōmiya, Rie Asama, Jyotaro Araki, Sojiro Saito, Masaaki Yuki, Toshiaki Shimamura, Sessho Sug-

JAPAN.

itani, Chikanobu Hashimoto, Gaho Hashimoto, Kunichika Toyowara, Gekko Ogata, Shotai Watanabe, Nobu Tomo Kano, Gyokusho Kawabata, Katei Taki, Gyokuden Murase, Yukoku Noguchi, Koseki Kose, Kanho Araki, Sessho Sugitani, all of Tokio; Renjyo Ichimi, Rashu Ishikawa, Keisen Ikeda, Shigeo Iwashima, Keinen Imao, Kansens Inouye, Keikwa Hasegawa, Gyokujuun Hasegawa, Gesshu Hada, Zaisen Hara, Goun Nishimura, Seido Bessho, Mitsutake Tosa, Yusetsu Tokuriki, Bunkwa Obata, Shuseki Okutani, Setsuka Kanzaka, Kogai Kawamura, Yoshimichi Kawabe, Shigyokudo Kato, Yurin Kakehi, Kwakyo Kado, Seisho Yoshida, Setsudo Yoshioka, Seikei Yoshitani, Kokyo Taniguchi, Gekko Tanaka, Seiho Takenouchi, Yuhu Tanaka, Shigeyo Takenouchi, Tadataka Takenouchi, Yuko Takegawa, Shunrin Taniguchi, Ichikwa Tanaka, Soryu Tamura, Sekkei Tanaka, Seiroku Tanomura, Shuho Tanomura, Shinko Tanomura, Shoko Tanomura, Kwako Tsuji, Kai Tsuda, Eirin Tsuchida, Koho Nagai, Keizan Mumemura, Manshu Uyeda, Kitsudo Uchimi, Oyo Kunii, Shunkyo Yamamoto, Masayuki Yamamoto, Bunko Yamada, Busetsu Yasuda, Korei Mayekawa, Chikusui Maruyama, Bunryo Mayekawa, Gyokushu Fujii, Shunsui Buto, Seiren Fujishima, Daiseki Fujita, Jyogaku Kojima, Gokyo Kobayashi, Ryukyo Asae, Bunsui Sakakibara, Gyokukei Sawazu, Hobun Kikuchi, Kwangetsu Kimura, Chikudo Kishi, Kyugaku Kishi, Gokyo Miyake, Koho Mizuno, Gyokusho Minoda, Senseki Shibayama, Toyo Shimizu, Gekkwu Momoi, Shungaku Mori, Bunbin Hisamatsu, Tamahiko Suzuki, Shonen Suzuki, Zaisen Hara, Mitate Kawabe, Bairei Kono, Chikudo Kishi, all of Kioto; Gotaro Emori, of Osaka; Katsuyoshi

Shoami, of Okayama; Keinen Imao, Tanshin Tsuruzawa, Naohiko Kumagai, Nagatoshi Sakakibara, Gyokusen Mochizuki, Sobun Morikawa, Shonen Suzuki.

GROUP 142.

Paintings on Ivory, on Enamel, on Metal, on Porcelain or Other Wares; Fresco Paintings on Walls.

- Eizaburo Kato, Nagoya.
 17. Enamel.
 Haruzane Higuchi, Saga.
 18. Painting on Porcelain.
 Jimbei Kawashima, Kioto.
 19. Kawashima Goblin, with Flower Basket.
 Jyubei Kato, Nagoya.
 20. Enamel.
 Kanzaburo Shimizu, Tokio.
 21. Hanging Pictures.
 Tetsunojo Atobe Najoya.
 22. Painting on Porcelain.

GROUP 144.

Engravings and Etchings; Prints.

23. A Collection of "hanging" pictures by the following artists, no subject titles being furnished:
 Sutezo Hayashi, Shokoku Wakabayashi, Hiromatsu Nakagawa, Fujigusu Nakatani, Ushimatsu Nakagawa, Zempachi Yamada, Harumichi Matsumoto, Naoshiro Fukata, Naobumi Fukata, Unsen Koyama, Mitsuteru Sawai, Toranosuke Hirai, Tai Morzumi, all of Osaka.

GROUP 145.

Antique and Modern Carvings; Engravings in Medallions or in Gems.

- Ichitaro Morimura, Tokio.
 24. Carved Ivory.
 Kuhei Hayashi, Tokio.
 25. An Eagle. (Carved wood.)
 Tokisaburo Masui, Shizuoka.
 26. Engraved Metal.

NEW SOUTH WALES.

GROUP 139.

Sculpture.

- Chevreaux, A. F., Sydney.
 1. Specimens of fruits carved in New South Wales marble. 820
 Hooworth, G., Sydney.
 2. Figure of "Diana," executed in New South Wales freestone. 820
 McCarthy, C. W., M. D., F. R. C. S. I., Sydney.
 3. Portrait bust, in plaster, of Madame Sara Bernhardt. 820
 4. Portrait bust, in plaster, of Mr. John Dillon, M. P. 820

GROUP 140.

Paintings in Oil.

- Art Society of New South Wales, Sydney.
 A collection of paintings in oil by members of the society:
 Pigenit, W. C.
 5. Sunset, Looking up Lane Cove from the Avenue.
 6. Spring; Lane Cove from Italia.
 Stephens, Miss E. A.
 7. White Peonies.
 8. Portrait of Hon. James Norton, M. L. C., M. D.

THE OFFICIAL DIRECTORY
DEPARTMENT K.—FINE ARTS.

- Williamson, Mrs.**
9. Hollyhocks.
10. Gum-tree Blossoms.
11. Single White Roses.
12. Christmas Bush.
13. View from Coalcliff, New South Wales.
Creed, Miss.
14. Star of Bethlehem.
15. Sunflowers.
Collingridge, A.
16. Woy woy, Brisbane Water.
Reid D. G.
17. Autumn Pasture, Richmond, New South Wales.
Fischer, A. J.
18. "Revenge."
Gant, J.
19. Sunset, Ruamahunga River, New Zealand.
Halligan, Mrs. G.
20. Kennedyyea Rubeia.
21. Wistaria.
Willis, Miss.
22. Study of Loquats.
Fullwood, A. H.
23. "How sweet the moonlight sleeps upon this bank,
Here we will sit, and let the sounds of music
Creep in our ears; soft stillness of the night
Becomes the touches of sweet harmony."
Fullwood, A. H.
24. Shoalhaven River, from Cambewarra.
25. Rain and Sunshine.
Hunt, C. H.
26. Summer.
27. The Milkmaid.
McIlwair, Mrs.
28. Australian Swamp Oaks.
29. In the Shade of the Gum Tree.
30. A Bit of Australian Bush.
Bell, Miss Ada.
31. Flowers from the Residence of Sir Spencer Wells, Hampstead, London.
Bell, Miss Ada.
32. English Blue Flags.
McGregor, A. S.
33. Derelict.
34. Port Phillip by Night—A Calm.
Collinridge, Arthur.
35. Discovery of the Hawkesbury River by Captain Phillip.
Collinridge, Arthur.
36. Man-of-War Steps, Sydney Harbor.
Combes, Edward, C. M. G., M. L. C., Sydney.
37. Monument of La Perouse, Botany Bay.
Doyle, Miss J. M., Goulburn.
38. Scene from Lake Bathurst.
Drinkwater, Charles, Newcastle.
39. Nambucca River, from Fernmount, looking north.
Flemming, Mrs. M. P., Sydney.
40. William Ewart Gladstone Eyre.
41. Portrait: "The Most Rev. Archbishop Vaughan, Sydney."
Holden, R. Henry, Kiama.
42. Aborigines of New South Wales Wild Duck Hunting.
- Holmes, Cecil, Sydney.**
43. Portrait from life: Sir Henry Parks, G. C. M. G., M. P.
M'Carthy, C. W., M. D., F. R. C. S. I., Sydney.
44. Portrait: Madame Sara Bernhardt as "Cleopatra."
Pinhey, Mrs. Charles, "Aratong," Sydney.
45. Southdown Sheep.
Rowan, Mrs. Ellis, Upper Macedon, Victoria.
46. Panels of Lilies.
47. Panel-Acanthus.
Sherman, Mrs. L. S., Sydney.
48. The Young Medical Student.
Thomas, Woolaston J., Sydney.
49. A Pioneer's Quarters, Campbelltown.
Trustees of the National Art Gallery of New South Wales, Sydney.
A loan collection of paintings in oils by artists of New South Wales.
Ashton, J. R.
50. Portrait of Sir Henry Parkes, G. C. M. G., M. P.
Ashton, J. R.
51. The Prospector.
Lister, W. Lister.
52. After the Shower.
Spence, Percy.
53. "The Ploughman Homeward Plods His Weary Way."
Piguenit, W. C.
54. The Upper Nepean.
Mahoney, Frank P.
55. Rounding up a Straggler.
Hunt, C. H.
56. Evening.
Condor, C.
57. Departure of the "Orient."
Mahoney, Frank P.
58. "As in the Days of Old."
Roberts, Tom.
59. Eileen.
Roberts, Tom.
60. Aboriginal Head.
Stoddart, Mary.
61. "From Earth to Ocean."
Fullwood, A. H.
62. The Station Boundary.
Watson, A. E., Sydney.
Loan collection of oil paintings, by J. H. Carse.
63. Cattle Watering, Bulli Pass.
64. Farmyard at Mulgrave. (N. S. W.)
65. Scene at Tilba Tilba. (N. S. W.)
66. Weatherboard Falls, Blue Mountains. (N. S. W.)
67. Mountain Scene, Katoomba. (N. S. W.)
68. Miner's Camp by Moonlight, Lithgow. (N. S. W.)
69. Scene on the Mountains, Mount Victoria. (N. S. W.)
70. Palette Knife Scene, Bulli Pass. (N. S. W.)
71. Coast Scene, near Botany. (N. S. W.)
72. Wheeny Creek, Hawkesbury River. (N. S. W.)
73. Bulli Pass and Kiama in the distance. (N. S. W.)
74. Scene at Mossman's Bay. (N. S. W.)
75. Scene at Emu Plains. (N. S. W.)
76. Scene at Richmond. (N. S. W.)

NEW SOUTH WALES.

77. Scene on the Hawkesbury River. (N. S. W.)
78. Coast Scene, Bondi. (N. S. W.)
79. Scene, Parramatta River. (N. S. W.)
80. Scene at Pitt Town, on the Hawkesbury River. (N. S. W.)
81. Coast Scene, Broken Bay. (N. S. W.)
82. Hut by Moonlight at Broken Hill. (N. S. W.)
83. Scene at Port Jackson. (N. S. W.)
84. Swamp Scene near the Coast, Manly. (N. S. W.)
85. Scene at Randwick. (N. S. W.)
86. Scene at Narrabeen. (N. S. W.)
87. Bark Hut, Clyde River. (N. S. W.)
88. Creek Scene, Blue Mountains. (N. S. W.)
89. Scene at Gosford. (N. S. W.)
90. Mountain Scene, Kurrajong. (N. W. S.)
91. Three Deserted Hut Scenes, Morning, Noon and Night. (N. S. W.)
92. Scene at Broughton Pass. (N. S. W.)
93. Grose Valley. (N. S. W.)
94. Coast Scene, Newcastle. (N. S. W.)
95. Wattle Flat. (N. S. W.)
96. Bulli Pass. (N. S. W.)
97. Scene at Blacktown. (N. S. W.)
98. Coast Scene at Coogee Bay. (N. S. W.)
99. Bushrangers' Bay. (N. S. W.)
100. Scene at Woy Woy, Brisbane Water. (N. S. W.)
101. Scene in New Zealand.
102. Three Pallette Knife Scenes, Lane Cove River.
103. Scene on the Lynn. (N. S. W.)
104. Scene on the Lynn. (N. S. W.)
105. Loch Ard.
106. Scene on the Nepean River. (N. S. W.)
107. Bush Fire.
108. Cattle Track.

GROUP 141.

Paintings in Water Colors.

Art Society of New South Wales, Sydney. A Collection of Paintings in Water Colors, by Members of the Society:

Hunt, C., Horbury.

109. On the Hawkesbury.
 110. Valley of the Murrumbidgee. Minns, B. E.
 111. Lady Macquarie's Chair. Spence, P. F. S.
 112. Sheep Droving, Australia. Heron, W.
 113. Looking Seaward, Little Coogee Bay. McGregor, A. S.
 114. A Rift in the Storm.
 115. A Summer Day, Cape Schank. Rowan, Mrs. Ellis, Derrewet, Upper Macedon, Victoria.
- A collection of 99 pictures of the flora of Australasia; painted by the exhibitor.
116. Goodennis Coerules. (W. A.)
 117. Leschenaultia Floribunda. (W. A.)
 118. Cassia Brewsterii. (Cairns Ranges, Q.)
 119. Alectryon Excelsum. (N. Z.)
 120. Rhodomyrtus Macrocarpa. (Q.)
 121. Albizzia Lucyi. (Cairns, Q.)
 122. Persoo Niapinifolia. (N. S. W.)
 123. Capparis Nobilis. (N. S. W.)
 124. Coleus Scutellarioides. (Q.)

125. Aneilema Gramineum. (Q.)
126. Verticordia Nitens. (W. A.)
127. Verticordia Nitens. (W. A.)
128. Verticordia Nitens. (W. A.)
129. Josephinia Grandiflora. (Somerset, Q.)
130. Grevillea Polystachya. (Q.)
131. Hibiscus Hügelii. (W. A.)
132. Erythrina vespertilio. (Prince of Wales Island.)
133. Gossypium Sturtii. (N. S. W.)
134. Tylophora Grandiflora. (N. S. W.)
135. Hemigenia Purpurea. (N. S. W.)
136. Eremophila Bignoniiflora. (N. S. W.)
137. Brachychiton Bidwillii. (Q.)
138. Asclepias Curassavica. (Normandy, Q.)
139. Dendrobium Bigibbum. (New Guinea.)
140. Cordlyne Murchisoniae. (Rockhampton.)
141. Melaleuca Leucadendron. (Rockhampton.)
142. Boronia Microphylla. (N. S. W.)
143. Lasiopetalum Ferrugineum. (N. S. W.)
144. Mitrasacme Polymorpha. (N. S. W.)
145. Drasophyllum Secundum. (N. S. W.)
146. Sesbania Grandiflora. (W. A.)
147. 1. Andersonia Cœrulea. (W. A.)
148. 2. Cryptandra Arbutiflora. (W. A.)
149. Hibiscus Manihot. (W. A.)
150. Erythrina Indica. (Somerset, Q.)
151. Metrosideros Florida. (N. Z.)
152. Hoheria Populnea. (N. Z.)
153. Eucalyptus Calophylla. (W. A.)
154. Boronia Ledifolia. (N. S. W.)
155. Boronia Triphylla. (N. S. W.)
156. Hoheria Populnea. (N. Z.)
157. 1. Dendrobium Sumneri. (Q.)
158. 2. Dendrobium Canaliculatum. (Q.)
159. 1. Eriostemon Danceolatus. (N. S. W.)
160. 2. Eriostemon Umbellatus. (N. S. W.)
161. Euyptus Ficifolia. (W. A.)
162. Capparis Lasiantha. (W. A.)
163. Clianthus Dampierii. (S. A.)
164. Grevillea Robusta. (Q.)
165. Cryptandra Arbutiflora. (W. A.)
166. Hovea Triperma. (W. A.)
167. Hibiscus Heterophyllus. (N. S. W.)
168. Actinotus Helianthi. (N. S. W.)
169. Hovea Linearis. (N. S. W.)
170. Euphrasia Brownii. (N. S. W.)
171. Calycothrix Muricata. (W. A.)
172. Calycothrix Strigosa. (W. A.)
173. Calycothrix. (W. A.)
174. Ceratopetalum Gummiferum. (N. S. W.)
175. Albizzia Tozeri. (Q.)
176. Clematis Aristata. (N. S. W.)
177. Eugenia Macrocarpa. (Q.)
178. 1. Dampiera Spicigera. (W. A.)
179. 2. Triraphis Bromoides. (W. A.)
180. Tetratheca Nuda. (W. A.)
181. 1. Sprengelia Incarnata. (N. S. W.)
182. 2. Epacris Pungens. (N. S. W.)
183. 3. Thryptomene Ciliata. (N. S. W.)
184. Melaleuca Wilsoni. (Vict.)
185. Kunzea Corifolia. (Vict.)
186. Melaleuca Ericifolia. (Vict.)
187. Ipomœa pes Capræ. (Somerset, Q.)
188. Hypoestes Floribunda. (Q.)
189. Arauja Albens.
190. Styphelia Aggregata. (N. S. W.)
191. Eugenia Var. Macrocarpa.
192. Dendrobium Speciosum. (N. S. W.)
193. Billardera Longiflora. (Tas.)

DEPARTMENT K.—FINE ARTS.

- Gualtieria Hispida. (Tas.)
 165. Eucalyptus Maculata. (Vict.)
 166. Halgania Corymbosa. (W. A.)
 Spinifex Longifolius. (W. A.)
 Stylobasium Spathulatum. (W. A.)
 167. Hakea Amplexicaulis. (W. A.)
 Bossiaea Pulchella. (W. A.)
 168. Abutilon Geranioide. (W. A.)
 Claytonia Polyandra. (W. A.)
 169. Ipomœa Grandiflora. (Q.)
 Dracaena Angustifolia. (Q.)
 170. Hibiscus Rosa Sinensis. (China.)
 171. Eremaea Violacea. (W. A.)
 Eremaea Acutifolia. (W. A.)
 Melalauca.
 Balaustion Pulcherrimum. (W. A.)
 127. Telopea Speciosissima. (N. S. W.)
 173. Cochlospermum Gillivrayi. (Q.)
 174. Bombax Malabaricum. (Q.)
 175. Dendrobium Superbiens. (Q.)
 176. Candollea Pilosa. (W. A.)
 Sphenotoma Squarrosum. (W. A.)
 Scaevola. (W. A.)
 Lobelia Tenuior. (W. A.)
 Conospermum Densiflorum. (W. A.)
 177. Dendrobium Undulatum. (W. A.)
 178. Kennedya Coccinea. (W. A.)
 179. Clitoria Ternatea. (Ferry Island Q.)
 180. Pimalea Sulphurea. (W. A.)
 181. Gompholobium Polymorphum. (W. A.)
 Marianthus Cœruleo-punctatus. (W. A.)
 182. Marianthus Ringens. (W. A.)
 Astartea Fascicularis. (W. A.)
 183. Kennedya Nigricans. (W. A.)
 184. Melaleuca. (N. S. W.)
 185. Anthocercis Viscosa. (W. A.)
 Kennedya Comptoniana. (W. A.)
 186. Victorian Flowers.
 187. Aster Exul. (W. A.)
 188. Group of Stylidium. (W. A.)
 189. Group of Hakeas. (W. A.)
 190. Grevillea. (N. S. W.)
 191. Group of Sundews. (W. A.)
 192. Patersonia Glabrata. (N. S. W.)
 193. Evolvulus Alsinioides. (Q.)
 Lindernia Crustacea. (Q.)
 194. Tecoma Australis. (Q.)
 195. Epacris Impressa. (Vict.)
 196. Ipomœa Grandiflora. (Q.)
 197. Erica. (N. S. W.)
 198. Eugenia. (Q.)
 199. Hugonia Jenkinsii. (Q.)
 200. Tabernaemontana Pubescens. (Q.)
 201. Exocarpus Cupressiformis. (Vict.)
 Aster Myrsinoides. (Vict.)
 Aster Ramulosus. (Vict.)
 Varonica Derwentia. (Vict.)
 202. Zyris Pauciflora. (Q.)
 Aneilema Granmineum. (Q.)
 Philhydrium Lanuginosum. (Q.)
 Candollea.
 203. Erythrina Indica. (Q.)
 204. Chloris Ventricosa. (Q.)
 Wahlenbergia Gracilis. (De Candolla Q.)
 Phaseolus Adenanthus (Meyer. Q.)
 205. Marianthus Bignoniaceu (F. v. M. Vict.)
 206. Anigozanthos Manglesii. (W. A.)
 Anigozanthos Bicolor. (W. A.)
 207. Anigozanthos Fuliginosus. (W. A.)
 Abutilon Micropetalum. (Q.)
 208. Aristotelia Peduncularis. (Tas.)
 Notelea Ligustrina. Tas.)
 Styphelia Billardieri. (Tas.)
 209. Platytheca Galioides. (W. A.)
 Tetratheca Hirsuta. (W. A.)
 210. Styphelia Xerophylla. (W. A.)
 Daviesia Cordata. (W. A.)
 Ricinocarpus Glaucus. (W. A.)
 211. Hovea Celsi. (Perth, W. A.)
 Daviesia Nudiflora (Perth, W. A.)
 212. Bauhinia Hookeri. (Q.)
 Eurycles Amboinensis. (Q.)
 Erythrina Indica. (Q.)
Sharp, Alferd, Newcastle.
 213. The Christmas Tree of New Zealand in Bloom.
 214. Banks of Camden Haven River, New South Wales.
 215. The Vegetable Octopus of New South Wales.
Trustees of the National Art Gallery of New South Wales, Sidney.
 Loan collection of water-color drawings, by artists of New South Wales.
Minns, B. E.
 216. Crescent Head, Point Plomer.
Fullwood, A. H.
 217. Kangaroo Valley.
 218. Cathedral Rocks, Kiama.
 219. Jervis Bay, Shoalhaven River.
Roth, A. B.
 220. Bathurst Plains, from Kelso Churchyard.
Ashton, J. R.
 221. The Shoalhaven River at its Junction with the Broughton.
Lister, W., Lister.
 222. Stonehenge, New England.
 223. Graham's Valley, New England.
Ettern, C.
 224. Govett's Leap.
Commons, Donald.
 225. The Coast, near Ben Buckler.
Bevan, E.
 226. "A Preliminary Puff"
Hanson, E.
 227. Silvery Seas.

GROUP 144.

Chalk, Charcoal, Pastel and Other Drawings.

- Grice, Benjamin J., Sydney.
 228. Design for ceiling decoration.
Montefiore, E. L., J. P., R. A. A. S. A., Sidney.
 229. Original drawing in candle-smoke: Coast Scene, Bondi, Sydney.

NORWAY.

GROUP 139.**Sculpture.**

Sinding, Johanna, Copenhagen.

1. By the Shore.
2. A Child.
3. Svor, Anders, Christiania.
4. David.
5. A Farmer.
6. A Little Girl.
7. Tønnesen, Ambrosia, Bergen.
8. Hjordis.
9. Visdal, T., Christiania.
10. Bust of Mr. Knudsen.

Class 822.

Skeibrok, Mathias, Christiania.

8. Bust of Bjornstjerne Bjornson.

GROUP 140.**Paintings in Oil.**

H. R. H. Prince Eugen.

9. Lake.
10. Landscape.
11. Arbo, P. N.
12. Valkyrie.
13. Backer, Harriet, Christiania.
14. From Tannum Church.
15. Berg, Gunnar, Svolvar.
16. From Lofoten.
17. Borgen, Fr., Christiania.
18. From Gudbrandsdalen.
19. Landscape (Autumn).
20. From Southern Norway.
21. Norwegian Landscape.
22. From Ojer.
23. Bratland, Jac., Christiania.
24. A Commission for Tax Assessment.
25. Collett, Fredrik, Christiania.
26. Winter.
27. After Sunset.
28. Thawing Weather.
29. The Devil's Hole.
30. Mesna, Lillehammer.
31. Diriks, Edvard, Christiania.
32. On the Norwegian Coast.
33. Winter.
34. Falsen, Mimi, Christiania.
35. In Thought.
36. Gloersen, Jacob, Christiania.
37. After Sunset.
38. Grimelund, Johs., Paris.
39. At the Entrance of the Hardanger-fjord.
40. Gronvol, Bernt., Bergen.
41. Summer Day in Norway.
42. An Old Man.
43. Gude, Nils., Christiania.
44. Heartsick.
45. Portrait. (Henrik Ibsen.)
46. Hansteen, Nils., Christiania.
47. Norwegian Fjord.
48. Norwegian Landscape.
49. Marine. (Pilot.)
50. From Oresund.
51. From Hornbak. (Denmark.)

52. Winter Day at Skagen. (Denmark.)
53. Heyerdahl, Hans, Christiania.
54. Oui ou Non.
55. Bathing Boys.
56. Fishers.
57. By the Shore.
58. Birch Woods.
59. From Aasgaardstrand.
60. Portrait of Mr. Sivert Nielsen, President of the Storthing. (Norwegian Congress.)
61. Portrait of Mrs. Laura Gundersen.
62. Hjerlow, Ragnvald, Christiania.
63. Springtime in Paris.
64. Hjersing, Arne, Christiania.
65. From Asker.
66. Holmboe, Thorolf, Christiania.
67. In the North Sea.
68. Nocturne.
69. Autumn.
70. Marine.
71. Snow Storm.
72. Jorgensen, Sv. Drammen.
73. Want of Employment.
74. Kaulum, H., Laurkullen.
75. Herringfishery at Hvaløerne.
76. From Skiorhalden.
77. From the Herringfisheries.
78. Herringfishery, Winterday.
79. Kielland, Kitty, Stavanger.
80. The Christiania Fjord.
81. An Old Bridge in Norway.
82. Summer Night in Norway.
83. Kolsto, Fr., Bergen.
84. A Summer Day on the Coast.
85. The Ship's Boy.
86. Konow, Karl, Gausdal, Norway.
87. Going to Church.
88. Krohg, Christian, Christiania.
89. Leif Eriksson Discovers America.
90. Krohg, Oda, Christiania.
91. Summer Evening.
92. Sun Spots.
93. Larum, Oscar, Christiania.
94. Twilight.
95. Moe, Sigurd, Stavanger.
96. From Hafrsfjord.
97. Munthe, Gerhard, Sandviken, Christiania.
98. Evening in Eggedal Norway.
99. Girl, Hallingdal.
100. The Old Farm.
101. Winter.
102. Munthe, Ludv., Dusseldorf.
103. Norwegian Village.
104. Müller, Johns, Østre Aker.
105. The Last Sun-rays.
106. Cloudy Weather.
107. Möller, N. B.
108. Norwegian Landscape.
109. Normann, Adelsten, Berlin.
110. Summer Night Lofoten.
111. Raftsund Lofoten.
112. North Wind. (Coast of Norway.)
113. Petersen, Eilif, Christiania.
114. Evening.

DEPARTMENT K.—FINE ARTS.

83. Sheep Shearing.
 84. A Strand Bird.
 85. Summer Day.
 86. Portrait. (Alexander Kielland.)
 87. Summer Evening.
Ring, Helga, Fredrikstad.
 88. Carriage Gentry Passing.
 89. Busy.
Rusti, Olav, Leikanger-Sogn.
 90. From the Cloister of Maulbronn.
 91. Cloisterhall.
Schiwe, Jacob, Helsingor.
 92. Winter in Germany.
Sinding, Otto, Christiania.
 93. From Rondane.
 94. Misty Morn.
 95. Summer Night.
 96. Wreckers.
 97. The Glacier.
 98. Mountain Pasture.
 99. From Lofoten.
Singdahlsen, Andreas, Christiania.
 100. Sunset.
Skredsvig, Chr., Sandviken.
 101. The Son of Man.
 102. Winter.
Somme, Jacob, Christiania.
 103. The Lay Preacher.
 104. Three Fishers.
Sømme, L., Christiania.
 105. Interior.
Sørensen, Jorgen, Christiania.
 106. From Romsdalen.
 107. The Old Pavilion.
Stenersen, Gudmund, Stavanger.
 108. Sunday.
 109. Snowy Day in the Fjords.
 110. Peasant's House.
Steiniger, Agnes, Bergen.
 111. Les Nourrissons.
 112. Portrait.
Strom, Halfdan, Lillehammer.
 113. Siesta.
 114. Portrait.
Stromdal, Georg., Christiania.
 115. July, 1814. The Beacon Lighted the Enemy in the Country.
Tannas, Marie, Christiania.
 116. Landscape.
 117. River.
 118. Winter.
Thaulow, Fritz, Paris.
 119. Retour de Travail.
 120. Behind the Mills.
 121. Winter at Christiania.
- Torgersen, Thorv, Christiania.**
 122. Moor.
Vackermann, M., Christiania.
 123. A Drama of the Woods.
Wentzel, Gustav, Christiania.
 124. Breakfast.
 125. Midsummer Night.
 126. Confirmation Banquet.
 127. Sunday Evening.
 128. Morning.
Werendkiold, E., Christiania.
 129. Portrait. (Mother of Bjørnstjerne Bjørnson.)
 130. Portrait. (Erika Nissen.)
 131. Portrait. (Edv. Grieg.)
 132. Brother and Sister.
 133. Portrait. (Bjørnstjerne Bjørnson.)
- GROUP 141.**
Paintings in Water Colors.
Munthe, Gerk. Sandviken, Christiania.
 Fairy Tales:
 134. Troll's Cave.
 135. Wooers.
 136. The Wise Bird.
 137. Frightened.
 138. Three Princesses.
 139. The Serpent.
 140. The Child and the Angel.
 141. The Wicked Stepmother.
 142. The Song.
 143. The Hell Horse.
 144. The Buck's Bruse.
- GROUP 143.**
Engravings and Etchings.
Nordhagen, Joh., Christiania.
 145. Five Etchings.
- GROUP 144.**
Chalk, Charcoal, Pastel and Other Drawings.
Nielsen, Eivind, Christiania.
 146. Drawings in a Frame.
Thaulow, Fr.
 147. By the River. (Winter.)
 148. In March.
Werenskiold, Erik, Christiania.
 149. Drawing.
 150. Drawing.
 151. Drawing.
 152. Drawing.
 153. Drawing.

RUSSIA.

GROUP 139.**Sculpture.**

- Beklemisheff, Vladimir Alexandrovitch.**
 1. A Runaway Slave. (A Group in Plaster.)
 2. Caprice. (Plaster.)
Dillon, Maria, Lvona.
 3. Bliss. (Statue in Bronze.)
- Gunzbourg, Ilia Takovlevitch.**
 4. Statuettes in Bronze. (Property of the Academy.)
 5. The First Music.
 6. Count L. Tolstoi.
 7. Statuette, Mr. T. T. Schischkine.
 8. Statuette, Mr. A. T. Rubenstein.
 9. Statuette, Mr. P. T. Tchaikoffsky.
 10. Statuette, Mr. V. V. Vereschaguine.

RUSSIA.

11. Statuette, Mrs. P. T. Strukoff.
12. Statuette, Mr. V. V. Stasoff.
13. Bust of the Count L. Tolstoi.
14. Bust of the Professor D. D. Mendelieff.
15. The Bathing Boys. (A group in Plaster.)

GROUP 140.**Paintings in Oil.****Collection of Pictures Exhibited by the Imperial Academy of Fine Arts.**

- Ashnazy, Isaak, Lvovitch.
16. The Parents of Moses.
17. Celebration of the Sabbath.
18. The Bridegroom (A Talmudist) on Probation.
- Baroness Vrangell, Helena Karlovna.
19. Winter.
- Bobroff, Victor Alexeievitch.
20. Erzkus Herzke—A Jew from Kovna. (1886.)
- Bodareffsky, Nicolay Kornilovitch.
21. A Wedding in Little Russia.
- Bronnikoff, Fedor Andreievitch.
22. Christian Martyr. (1878.) (Property of the Academy.)
- Bruni, Nicolay Alexandrovitch.
23. The Candle-bearers. (Property of the Academy.)
- Dmitrieff-Orenbursky, Nicolay Dmitrievitch.
24. A Drowned Man in a Country Place.
25. The Military Painting Shop.
26. Sunday in a Village.
- Ducker, Eugenie Eduardovitch.
27. Noon. (Property of the Academy.)
- Endoguroff, Ivan Ivanovitch.
28. The Early Spring. (Property of the Academy.)
29. A Heavy Rain. (Property of the Academy.)
30. A Winter Evening in a Village.
- Fedders, Julius, Ivanovitch.
31. My Villa. (Property of the Academy.)
- Frentz, Rudolf Fedorovitch.
32. An Inn. (Property of the Academy.)
- Galinsky, Visdislaff Nihailovitch.
33. Forest.
- Graedkoffsky.
34. In the Swim.
- Holmsky, Vasily Andrievitch.
35. The Mushroom Gatherers Taking a Rest. (1888.) (Property of the Academy.)
- Jacoby, Valerian Ivanovitch.
36. The Ice Palace. (1881.) (Property of the Academy.)
- Juravleff, Firs Sergeievitch.
37. Hay Market at Rest.
38. He Loves Me—He Loves Me Not.
39. The Family of a Street Musician.
- Kiffshenko, Alexei Danilovitch.
40. The Military Counsel at Fily. (Property of the Academy.)
41. A Wolf Caught Alive. (Property of the Academy.)
42. Assorting Feathers.
43. At the Crater of Lediassi.
- Klagis, Fedore Andreievitch.
44. Interior View of the Church of the Saviour at Moscow.
- Klever, Julie Julievitch.
45. Forest. (Property of the Academy.)

- Klodt Von Jurgensburg, Baron Mihail Constantinovitch.
46. The Czar's Bounty.
- Korovin, Constantine.
47. Spanish Girls.
48. Taking Tea.
- Korzuhin, Alexey Ivanovitch.
49. The Evening before the Wedding. (Property of the Academy.)
50. Peasant life. (Property of the Academy.)
- Kovaleffsky, Pavel Osipovitch.
51. Excavation of Rome. (1878.) (Property of the Academy.)
- Kramskoy, Ivan Nicolaievitch.
52. Portrait of Mr. Soloffieff. (Property of the Academy.)
53. Portrait of the Artist's Daughter. (Property of the Academy.)
- Kratchkoffsky, Josif Eustaffievitch.
54. The New Moon. (Property of the Academy.)
55. A July Morning.
- Krugitsky, Constantin Eakovlevitch.
56. The Heat over, A Fresh Breeze on. (1889.) (Property of the Academy.)
57. After Work.
58. Winter. (1888.)
59. A Night in Little Russia.
- Kuriard, Palageia Petrovna.
60. A Landscape.
- Kuznezoff, Nicolay Dmitrievitch.
61. The Justice of the Peace. (1888.)
62. In the Garden. (1889.)
63. The Interrupted Breakfast.
- Lemock, Larl Vikentievitch.
64. Peasant Girls.
- Levithan, Isaac.
65. Holy Day in a Convent.
- Litovtchenko, Alexander Dmitrievitch.
66. The Italian Ambassador, Calvuc Draw the Favorite Falcons of the Czar.
67. Auexsey Mihailovitch. (Property of the Academy.)
- Macopsky, Constantin, Egorovitch.
68. A Bacchanal.
69. The Bride's Attire.
70. Portrait of a Lady.
- Makovsky, Vladimir Egorovitch.
71. The Gamblers' Quarrel.
72. The Niggard.
73. A Public Market in Moscow. (1879.)
74. The Wayfarer.
75. Little Russian Tobacco Smokers.
- Mestchersky, Arseni Ivanovitch.
76. The Narva Roads. (1886.) (Property of the Academy.)
- Morozoff, Alexander Ivanovitch.
77. The Escape of Gregorie Utreprieff near the Frontier Lithuanian. (Property of the Academy.)
78. The Harvest; a copy of the Picture belonging to the Emperor.
- Novoskolzeff, Alexander Nicolaievitch.
79. Head of a Negro. (Property of the Academy.)
80. The Last Minutes of the Metropolitan Phillip.
- Novosoff, Vasily Ivanovitch.
81. A Free Dining-room. (Property of the Academy.)

DEPARTMENT K.—FINE ARTS.

- Pasternak, Leonid.**
 82. Home again.
Pelevin, Ivan Andreievitch.
 83. The First Born. (Property of the Academy.)
Peroff, Vasily Grigorievitch.
 84. The Anglers. (1873.)
Pimonenko, Nicolay Karlovitch,
 85. Easter Halloween. (Property of the Academy.)
Polenoff, Helena.
 86. After the Bath.
 87. Before the Examination.
Repine, Elias Evimovitch.
 88. The Cossack's Answer. (Property of the Academy.)
Savinsky, Vasiné Eumentievitch.
 89. The Invention of the Sick Prince Pobjarski to accept the Command of the Army. (Property of the Academy.)
Savitzky, Constantin Appollonovitch.
 90. For Christ's Sake.
Sedoff, Gregory Siemenovitch.
 91. Vasilisa Melentievna. (1882.)
Shishkin, Ivan Ivanovitch.
 92. A Forest.
Siemiradsky, Henry Hippolytovitch.
 93. Christ in the House of Lazarus. (1887.) (Property of the Academy.)
 94. Frina. (1887.) (Property of the Emperor.)
Stepanoff, Alexei.
 95. The Hunt.
Svertchkoff, Nicolay Egorovitch.
 96. The Pony that Killed a Wolf.
Tchistiakoff, Pavel Petrovitch.
 97. The Grand Duchess, Sophia Vitofftovna, at the Wedding of the Grand Duke Vasilie II, "The Dark," (1433) Tearing off Demetrie Donskoy's Belt from the Duke Vasilie, "The One-Sighted." (1882.) (Property of the Academy.)
Tvorojnikoff, Ivan Ivanovitch.
 98. A Lay Brother Selling Images. (1888.) (Property of the Academy.)
 99. Grandmother and Grandchild. (1889.) (Property of the Academy.)
Vasilieff, Fedor Alexsandrovitch.
 100. After the Rain. (Property of the Academy.)
Venig, Kark Bogdanovitch.
 101. A Russian Girl. (1889.) (Property of the Academy.)
Volkoff, Efim Efimovitch.
 102. Morning.
Willewalde, Bogdan Pavlovitch.
 103. You To-Day and I To-Morrow. (Property of the Academy.)

- Zagorsky, Nicolay Petrovitch.**
 104. A Sore Heart. (Property of the Academy.)
 105. Morning Tea.

 106. **Aivazovsky, Ivan Constantinovich.**
 The Ship "Santa Maria" on its way to America, when Columbus, during a heavy storm was surrounded by the Revolting Crew.
 107. Columbus Landing with his suite at San Salvador.
 108. Young Columbus Saving himself on the Mast of a Mercantile ship, set on fire by a Venetian Galley, off the Shores of Portugal.
 109. The Farewell of Columbus in Palos, before going to Sea.
 110. The Arrival of Columbus' Flotilla on the American Shore.
 111. Naples, By Moonlight.
 112. The Gondola. (In Venice.)
 113. Saving Himself in a Boat.
 114. Garibaldi and the Garibaldians on the Deck of a Steamer.
 115. Yalta in the Morning.
 116. A Storm on the Crimean Coast.
 117. A Street in Bakhtchisaray. (The Capital of Crimea, during the dominion of the Tartars.)
 118. A Boat in a Storm.
 119. A Lantern in the Sea of Marmora.
 120. Constantinople.
 121. The Breakers on the Sea of Azof.
 122. The Breakers on the Black Sea Coast.
 123. Yalta at Night.
 124. Environs of Malaga.
Alexeieff, Alexander Hypatievitch.
 125. An Italian Girl. (1884.)
 126. Head of an Italian Girl (1889.)

GROUP 141.

Paintings in Water Colors.

- Endoguroff, Sergey Ivanovitch.**
 127. A Quiet Day.
 128. After the Storm.
 129. Evening.

GROUP 145.

Antique and Modern Carvings.

- Adamson.**
 130. The Dying Hyacinthe. (Wood Carving.)

SWEDEN.

GROUP 139.

Sculpture.

- Akerman, W., Paris.**
 1. Madonna. (Plaster relief.) 820
 2. "Sensitiva." 820
Börjesson, Prof. John, Stockholm.
 3. The Brothers. (Bronze group.) 822
Eriksson, Christian, Paris.
 4. Carl von Linc. (Plaster relief.) 820
 5. "1779." (Marble.) 820
 6. Blindman's Buff. (Bronze vase.) 822
Hasselberg, Per, Stockholm.
 7. The Snowdrop. (Plaster statue.) 820
 8. The Frog. (Plaster statue.) 820
 9. The Water Lily. (Plaster statue.) 820
 10. Louis de Geer. (Plaster bust.) 820
 11. Prince Eugen. (Bronze bust.) 822
 12. Olof Wijk. (Bronze statuette.) 822
 13. P. Fürstenberg. (Bronze statuette.) 822
Ludeberg, Th., Prof., Stockholm.
 14. Relief for the Decoration of a Mantel-piece. 821
Matton, Ida, Paris.
 15. "Mama." (Marble statue.) 820
Nyström, Alf., Stockholm.
 16. The Lion of Gothia. (Plaster.) 820
Söderman, N. Aug., Stockholm.
 17. John Ericsson. (Plaster statuette.) 820
Wallgren, Antoinette, Paris.
 18. Bretonne. 820

GROUP 140.

Paintings in Oil.

- Albert, G., Paris.**
 19. French Landscape.
 20. French Landscape.
Andersson, J. A. G., Stockholm.
 21. Winter Fishing.
Arborelius, O., Stockholm.
 22. Landscape in Dalecarlia.
 23. Hay Carting in Dalecarlia.
 24. Sunday Morning in Dalecarlia.
 25. Bridal Procession in Dalecarlia.
Beer, A., Stockholm. (Swedish Pavilion.)
 26. The Castle of Tidö, Sweden.
Behm, Wilhelm, Gnesta.
 27. Birch Grove, Södermanland.
 28. Winter Landscape.
 29. Landscape, River Valley of the Indalselfven.
Bergh, R., Stockholm.
 30. Portrait of Miss A. B.
 31. An Old Song.
 32. Landscape.
Björck, O., Stockholm.
 33. Portrait of Baron J. M. Nordenfalk.
 34. Interior of Cow-house.
 35. Portrait Study.
Bonnier, Eva, Stockholm.
 36. My Housekeeper.
 37. Music.
 38. Portrait; Mr. H. L.
Borg, A., Stockholm.
 39. Scene from Fair in Orebro.
 40. Elk Hunt.

- Bredberg, Mina, Stockholm.**
 41. Portrait of a Russian Artist.
Chadwick, E., Stockholm.
 42. Carmencita.
 43. Rainbow.
 44. "My Boy."
Ekström, P., Segerstad, Öland.
 45. Moonrise, Särö.
 46. Breaking Up of the Ice, Oscarshamn.
 47. Dawning, Normandy.
 48. Landscape, Marstrand.
 49. December Midday Sun, Öland.
 50. Autumn, Öland.
Ericsson, Joh., Gothenburg.
 51. Moonrise.
H. R. H. Prince Eugen of Sweden and Norway.
 52. The Forest.
 53. Autumn Day.
 54. The Temple.
Feychting, H., Stockholm. (Swedish Pavilion.)
 55. Regatta in the Archipelago.
Genberg, A., Stockholm. (Swedish Pavilion.)
 56. View of the Tottehumeln, Areskutan, Sweden.
 57. Church of Are, in Jemtland, Sweden.
Hagborg, Aug., Paris.
 58. Beggar.
 59. Evening.
 60. Low Tide.
 61. "Bijou and Honore."
Hermelin, O., Baron, Österby, Torshälla.
 62. Autumn.
Jansson, Eug., Stockholm.
 63. Twilight in May.
Jungstedt, A. Stockholm. (Swedish Pavilion.)
 64. Portrait of H. R. M., the King of Sweden.
 65. Railroad Laborers.
Kayser, Elisabeth, Stockholm.
 66. Peasant Woman, Normandy.
Kindborg, J., Stockholm.
 67. Landscape, Wermland, Sweden.
Kreüger, Nils, Warberg.
 68. Summer Evening.
 69. Street View from Warberg.
 70. Evening.
 71. Winter Idyll.
 72. Evening.
Kronberg, Julius, Professor, Stockholm.
 73. Portrait of Charles XII.
Kulle, J., Stockholm.
 74. Scanian Peasant's Cottage.
Larsson, Carl, Gothenburg.
 75. My Family.
 76. "Ulf" in the Sunset.
 77. A Swedish Fairy Tale.
Liljefors, Bruno, Upsala. (Swedish Pavilion.)
 78. Bear Hunting.
 79. Fox Shooting.
 80. Game Shooting.

DEPARTMENT K.—FINE ARTS.

81. Hawk's Nest.
82. Foxes.
83. Wild Geese.
84. Night.
85. Grouse Shooting.
Lindholm, B., Gothenburg.
86. Rocks, Scania.
87. The Cattegat, off Halland's Väderö.
Lindman, Ax., Stockholm.
88. Terrace in Positano.
89. Way Along the Coast at Amalfi.
90. Capri with Castiglione and Monte Salaro.
91. Surf at Bagno di Tiberio.
92. Naples, Riviera di Chiaia.
Lundström, Ernst, Stockholm.
93. "Berzelii Park," Stockholm.
94. The Norrström, Stockholm.
Nordström, Karl, Hoga, Bohuslan.
95. The Yellow House.
96. Winter Landscape.
97. Twilight.
98. In Winter Harbor.
99. Sunset.
Norrman, H., Tranas.
100. Autumn.
Österlind, Allan, Stockholm.
101. The Orphans.
Pauli, G., Stockholm.
102. Legend.
103. Midsummer's Night.
104. Winter Morning in Stockholm.
Pauli, Hanna, Stockholm.
105. Portrait; Vennie S.
106. Portrait; K. Nordström, the Artist.
107. The "Name's-day."
Rosen, G. von Count Prof., Stockholm.
108. Nordenskiöld.
109. Portrait; Count Lagerberg.
110. Portrait; Prof. G. W. Palm.
Rosenberg, Edv., Stockholm.
111. View of Norrström and the Royal Palace of Stockholm.
Salza, C. F. von, St. Louis.
112. Portrait.
Schultzberg, A., Grangarde.
113. The First Snowfall.
114. The Last Sunbeam.
115. Evening (Picardy).
Schulzenheim, Ida von, Stockholm.
116. "Too Hot."
117. Greyhounds.
Sparre, Emma, Baroness, Stockholm
118. Interior of the Castle of Gripsholm.
Stolpe, Marie Louise, Stockholm.
119. In Memoriam Linnei.
Svensson, C. F., Stockholm.
120. Sailors in the Oresund.
Thegerström, R., Stockholm.
121. A Calm.
Thörne, Alf., Stockholm.
122. Nämdö in the Archipelago of Stockholm.
123. Trolling.
124. Oat Harvest.
Tradgardh, Carl, Paris.
125. Going to Market.
126. Cow-keeper.
Wahlberg, Prof. Alf., Paris.
127. Night on the Swedish Coast.
128. Evening (Hallands' Väderö.)
129. Stockholm in Moonlight.

130. Misty Night, Oise.
131. River Landscape (Eure.)
132. Morning (Oise.)
133. View from the West Coast of Sweden
Wahlström, Charlotte, Stockholm.
134. Moonrise.
Wallander, Alf., Stockholm.
135. "Putte."
Westman, Edw., Stockholm.
136. Spring Evening.
137. Hay-making in Normandy.
Zorn, And. L., Paris.
138. "Margit."
139. Omnibus.
140. Ball.
141. Fair in Mora, Sweden.
142. A Toast in "Idun."
143. A Forest Study.
144. Sunset.

GROUP 141.

Paintings in Water Colors.

- Boberg, Anna, Stockholm.**
145. Venice.
146. Gondolas.
147. View from Menaggio.
Ericsson, Anna, Gothenburg.
148. View from Ronneby, Sweden.
149. Moon-rise.
Gellerstedt, Prof. A. T., Stockholm
150. Swedish Views.
Hermelin, T., Baron, Stockholm.
151. Runic Monuments.
152. The Barrows of Upsala.
Jolin, Ellen, Stockholm.
153. The Baptistry of Sienna.
Larson, Carl, Gothenburg.
154. Portrait; Mrs. F.
155. Interior of Dalecarrian Peasant Cottage, winter time.
Tiren, J., Stockholm.
156. Landscape with Lapps.
157. Lapp on Snow Skates. ("Skidor.")
158. Lapps Catching Reindeer.

GROUP 142.

Paintings on Ivory, on Enamel, on Metal, on Porcelain or Other Wares; Fresco Painting on Walls.

- Althin, C., Stockholm.**
159. Decorative Painting.

GROUP 143.

Engravings and Etchings; Prints.

- Boberg, F., Stockholm.**
160. Birger Jarl.
161. St. Catherine Church, Stockholm.
162. Interior of Italian Yard.
163. The Choir of San Marco, Venice.
Haglund, R., Stockholm.
164. The German Church in Stockholm
165. "Kornhamn," Stockholm.
166. The Furstenberg Art-Gallery in Gothenberg.
Haig, A. H., Haslemere, Surrey, England.
167. The Cathedral of Burgos.
168. Arab Students, Cairo.
169. Arab Quarters, Cairo.
170. In Rhine-Land.
171. Towing in the Prize.

SWEDEN.

172. Wisby, Twilight.
 173. Stockholm.
 Rosen, Count, G. von, Prof., Stockholm.
 174. Six Etchings.
 Zorn, And. L., Paris.
 175. Statuette of my Grandmother. (Wood.)
 176. Etchings.

GROUP 144.

Chalk, Charcoal, Pastel and Other Drawings.

- Andren, V., Stockholm.
 177. Views and Characters from Stockholm.
 H. R. H. Prince Eugen, of Sweden and Norway; Stockholm.
 178. Summer Day.
 Jansson, Eug., Stockholm.
 179. Venus.

- Liljefors, Bruno, Upsala.
 180. Eight Drawings.
 Nordstrom, Karl, Hoga, Bohuslan.
 181. Night.
 182. Moonrise.
 183. Dawning.
 184. Moonlight.
 Wallander, Alf., Stockholm.
 185. A Poulterer.
 186. Evening Sun.
 187. Coffee Party Sixty Years Ago.

GROUP 145.

Antique and Modern Carvings; Engravings in Medallions or in Gems, Cameos, Intaglios.

- Norman, A. E.
 188. Columbus' Arrival in America. (Cut with pen-knife from a solid block of hardwood.)



NEW HAMPSHIRE STATE BUILDING.

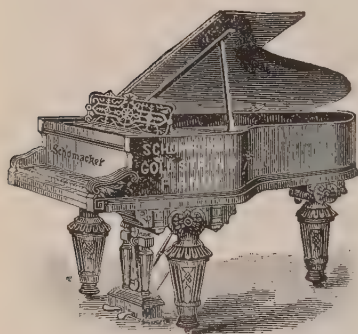
SCHOMACKER

The Recognized Standard Piano of the World.

... ESTABLISHED 1838 ...

Sold to every part of the Globe

Preferred by all the leading artists.



THE GOLD STRINGS

Emit a purer, sympathetic tone, proof against atmospheric action, extraordinary power and durability, with great beauty and evenness of touch. Pre-eminently the best and most highly improved instrument now manufactured in this or any other country in the world.

Highest Honor ever accorded to any maker.

Unanimous verdict.

1851, Jury Group International Exposition.

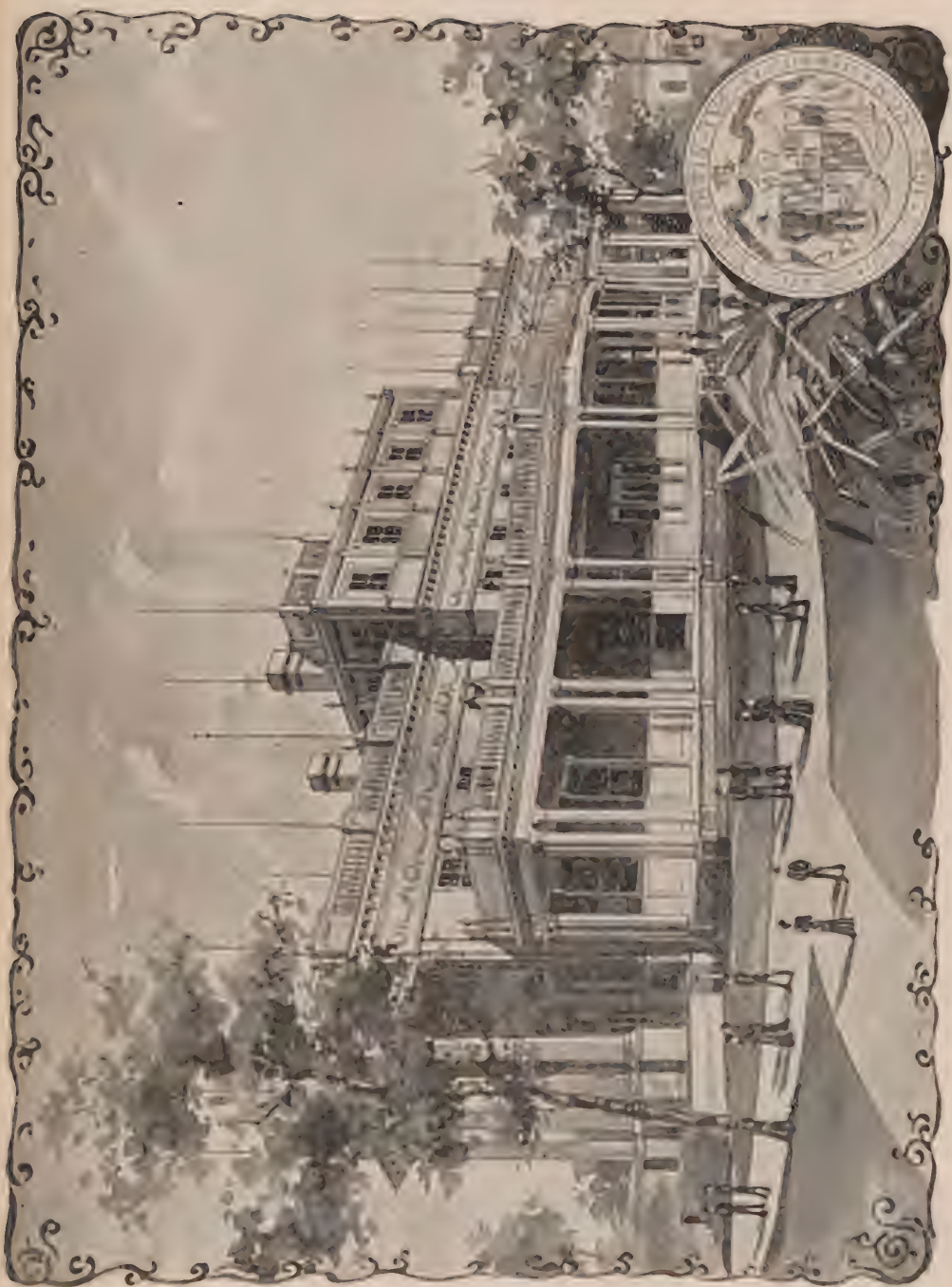
1876 for Grand, Square and Upright Pianos.

ILLUSTRATED CATALOGUE MAILED ON APPLICATION.

Schomacker Pianoforte Manufacturing Co.

No. 1109 CHESTNUT STREET,

PHILADELPHIA, PA., U. S. A.



MARYLAND STATE BUILDING.

PIANOS,
New York City.

ORGANS,
Brattleboro, Vt.



ORGANS,
Brattleboro, Vt.

PIANOS,
New York City.

...SAMPLES...

ON COLUMBIA AVE., NEAR SOUTH MAIN ENTRANCE,
MANUFACTURES BUILDING



Best Line in the World!

Both Leaders in their class!

CORRESPONDENCE INVITED
FROM THE WHOLE MUSICAL WORLD.



MAINE STATE BUILDING



KENTUCKY STATE BUILDING.



COPYRIGHT 1903 BY J. M. A. & C. CH.

NORTH DAKOTA STATE BUILDING.

THE W. B. GONKEY COMPANY



Editions de Luxe,
Superior Half-Tone Printing,

FINE COLOR PRINTING A SPECIALTY

341-351 DEARBORN STREET,
CHICAGO.



THE WINSLOW BROS. CO.

ORNAMENTAL IRON, BRONZE, BRASS,
ALUMINUM, DUPLEX-BRONZE,
BOWER-BARFFED WORK,
FIRE-GILT & FIRE-ENAMELLING.
SPECIAL DESIGNS, ARTISTIC BLACKSMITHWORK.
CARROLL AVENUE, ADA & FULTON STREETS.
CHICAGO, - - - ILL.

SUPERIOR INDUCEMENTS ON



BICYCLES

All Sizes, Styles and Priced Cycles to select from.
Largest Stock and Oldest Dealers.

We manufacture SYLPHS, RUDGES AND OVERLANDS

Are Largest Jobbing Agents for WESTERN WHEEL WORKS' 19 Patterns of medium priced Safeties in the West, besides being headquarters for the greatest line of BARGAINS in new Wheels ever offered—20 to 50 per cent. SAVED on many makes and Easy Payments if desired.

No matter what you want in the Cycle and Sundry line, it will pay you to write us. We sell everywhere. Catalogue and Bargain List Free. Discounts to Agents.

See our exhibit in Transportation Building, Sec. F, Gallery, next to posts 15 and 16.

ROUSE, HAZARD & CO., 212 G ST., PEORIA, ILL.

Manufacturers, Importers and Jobbers.

ARMOUR & COMPANY

205 LA SALLE ST., CHICAGO, ILL.

The world-renowned brand of this firm on any product of Hogs, Cattle or Sheep is a guarantee of superiority and careful preparation.

ALSO PROPRIETORS OF

ARMOUR : GLUE : WORKS

THE LARGEST MANUFACTURERS IN THE UNIVERSE OF
GLUE AND ITS ATTENDANT PRODUCTS.

THE NATIONAL CARBON CO.

CLEVELAND, OHIO, U. S. A.

. . . Manufacturers of . . .

Electric Light Carbons, Battery Carbons

AND CARBON BRUSHES FOR DYNAMOS AND MOTORS.

. . . ALSO . . .

Cored Carbons for Inside Lighting, Focusing Lamps
and Search Lights.



LOUISIANA STATE BUILDING.

GEO. A. FORD,
President.

C. J. SWIFT,
Business Manager.

E. S. FORD,
Secretary.

W. H. MARSHALL,
Treasurer.



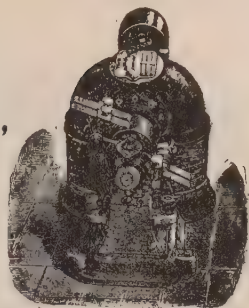
STORAGE CELL.

THE FORD-WASHBURN STORELECTRO COMPANY,

Cleveland, Ohio, U. S. A.

MANUFACTURERS OF

Storage Batteries, Electric Motors, Dynamos and
Electric Street Cars.



MOTOR.

CORRESPONDENCE SOLICITED.

KOOPMAN & CO.

IMPORTERS OF

Antique Furniture, Hall Glocks

OLD SILVERWARE AND BRIC-A-BRAC.

27 BEACON STREET,
BOSTON, MASS.

324 FIFTH AVENUE,
NEW YORK.

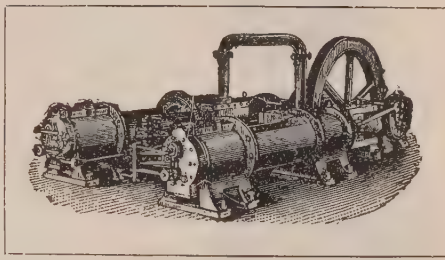
AND AT SASSENSTRAAT, ZWOLLE, HOLLAND.



RAND DRILL CO.



ROCK DRILLS,
AIR
COMPRESSORS,
MINING
MACHINERY.



High and Low Pressure Compressors for Air, Gas, etc., with
Compound Steam and Air Cylinders, Corliss or Meyer Steam
Valves, New Mechanical Air Valves, for operating Rock
Drills, Coal Cutters, Street Cars, Hoisting Engines, Pumps,
Cranes, Switches, Pneumatic Tools, etc., etc.



RAND DRILL CO.

23 Park Place, NEW YORK CITY, U. S. A.

BRANCH OFFICES:

Monadnock Building, Chicago.

Ishpeming, Mich.

Denver, Col.

AGENCIES:

London, England.

Melbourne and Sidney, Australia.

Sherbrooke, P. Q., Canada. Mexico City.

Johannesburg, So. Africa.

THE LEADING INDUSTRIAL INSURANCE COMPANY OF AMERICA.

CANVASSERS WANTED IN ALL THE PRINCIPAL CITIES OF THE NEW ENGLAND,
MIDDLE AND WESTERN STATES BY THE

METROPOLITAN LIFE INSURANCE COMPANY OF NEW YORK

FOR ITS PLAN OF INDUSTRIAL INSURANCE.

This plan embraces all the members of a family, male and female, between ages 2 and 70. Premiums from 5 to 60 cents per week. Claims paid immediately at death. Premiums collected weekly from the homes of policy-holders. Benefits range from \$14 to \$1,000 and upward. All needed explanations will be furnished upon application to the company's superintendents in any of the principal cities, or the Home Office in New York.

OFFICERS:

JOHN R. HEGEMAN, PRES.

HALLEY FISKE, VICE-PRES.

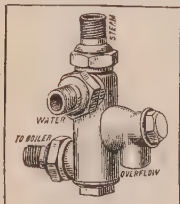
GEO. H. GASTON, 2D VICE-PRES. AND SEC.

JAMES M. CRAIG, ACTUARY.

STEWART L. WOODFORD, COUNSEL.

J. J. THOMPSON, CASHIER AND ASSISTANT SECRETARY.

THOMAS H. WILLIARD, M. D., MEDICAL EXAMINER.



WORLD-RENOUNDED

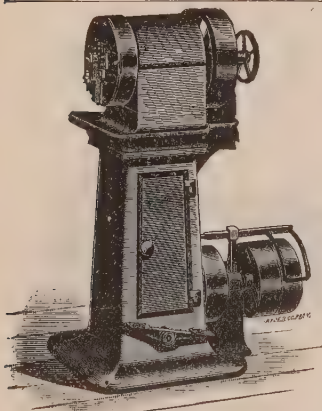
THE PENBERTHY INJECTOR.

75,000 on United States and Canada Boilers.

USED ON BOILERS, COLUMBIAN EXPOSITION.
AGENTS WANTED IN EVERY FOREIGN COUNTRY.



Call at our Exhibits, Section 25, Machinery Hall, or address
PENBERTHY INJECTOR CO., **DETROIT,**
MICH.



SAMUEL MOORE & CO.,

MANUFACTURERS OF

JEWELERS' SUPPLIES, ORNAMENTAL WIRE, SILVER,
ROLLED PLATE AND GERMAN SILVER
SHOT CHAIN.



WE ARE THE ONLY MANUFACTURERS IN AMERICA OF THIS
LINE OF CHAIN BY MACHINERY FOR MANUFACTURERS
OF JEWELRY, SADDLERY HARDWARE, ETC.

178 EDDY STREET, - - PROVIDENCE, R. I., U. S. A.

Try



MINERAL WATERS

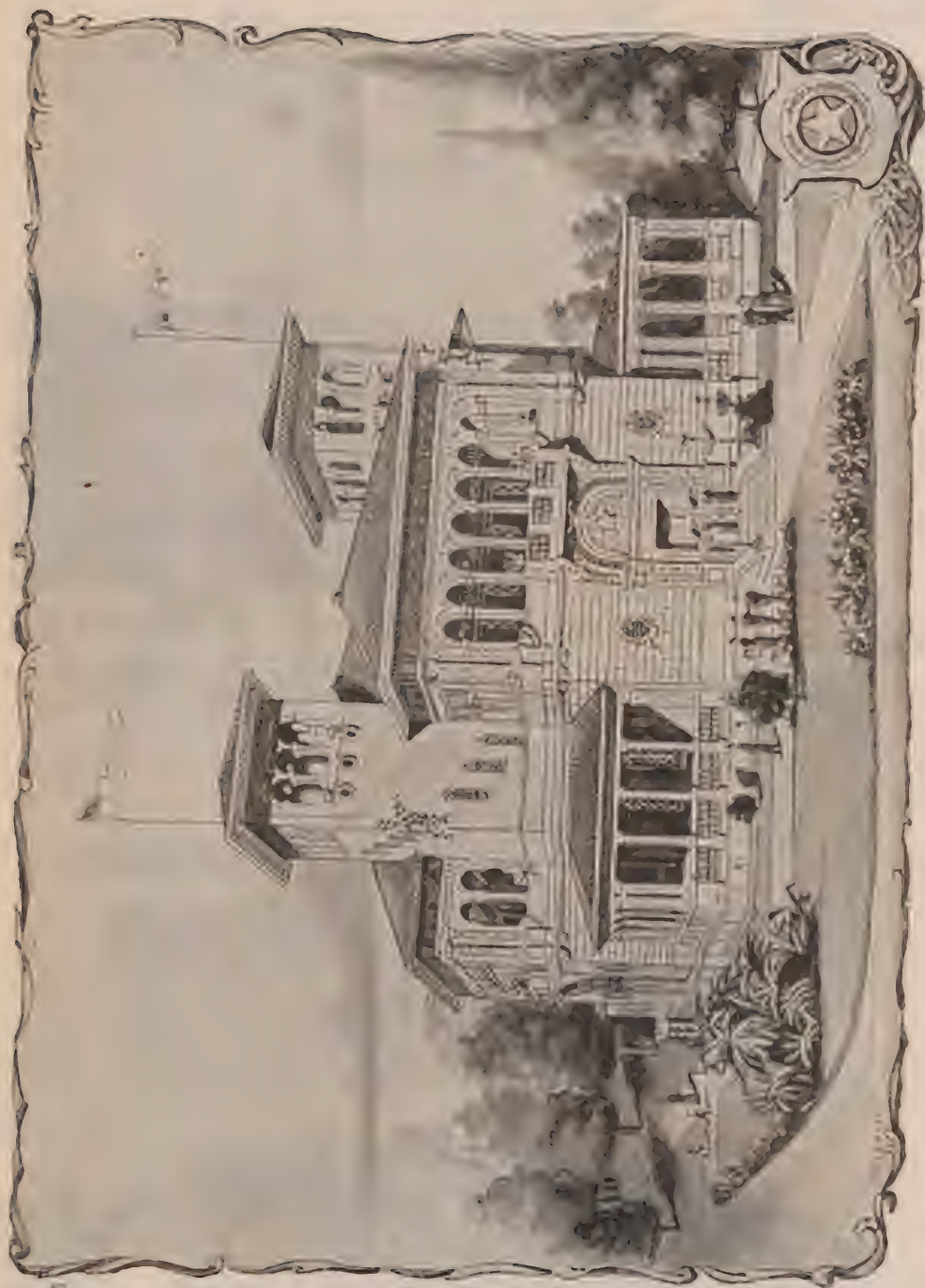
Of Superior Quality and Recognized Merit that will satisfy the most exacting tastes.

MANUFACTURED BY

JOHN MORGAN, 343-347 WEST 39th STREET,
NEW YORK CITY.

"KNOW of no tonic," said an old epicure, "like good mineral water." It gives life a rosier tinge and makes a man pleased with himself and satisfied with his neighbors."

SEE EXHIBIT IN GALLERY, AGRICULTURAL HALL.



TEXAS STATE BUILDING.



Buttermilk Toilet Soap

FOR the Complexion.
 OR Keeping the Skin Soft.
 OR Making the Skin White.
 OR its Soothing Effect and Beneficial Feeling.

IT IS THE GRANDEST SOAP IN THE WORLD.

No Other Soap Like It.

Take No Soap in Place of It.

It Excels any Soap at 25 Cents.

If your dealer does not keep it send 12 cents for full size SAMPLE CAKE.

COSMO BUTTERMILK SOAP CO.,
 84 Adams Street, CHICAGO.

SILAS HOWE, Pres.

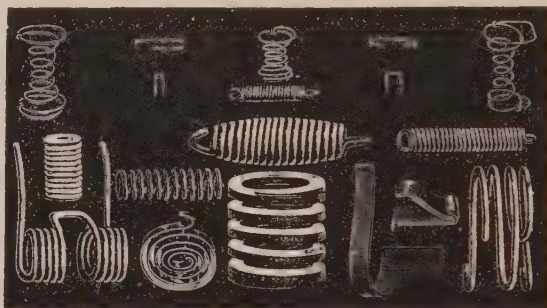
ENOUGH PETERSEN, Vice-Pres.

The Wm. D. Gibson Co.,

MANUFACTURERS OF

SPECIAL SPRINGS

For Electrical Machinery,
 Agricultural Machinery,
 Upholsterers,
 Machinists,
 And for all Purposes.



OFFICE and FACTORY: 61-69 North Jefferson St., CHICAGO, ILL.





HOME OFFICE:

NEW YORK

JOHN A. MCGALL,
President.

LIFE INSURANCE COMPANY

346 AND 348 BROADWAY,

ORGANIZED IN 1845.

. . . NEW YORK.

. . . PURELY MUTUAL.

The Company's Exhibit will be found in the Manufactures and Liberal Arts Building, Department L, Section E, Gallery Floor (T 108), Group 154, Class 902.

The Exhibit sets forth Life Insurance in its theoretical, historical and practical aspects. The latter point is illustrated by Policies issued in 1845, 1860, 1886 and 1892, respectively. The first was a policy with one benefit and nine conditions and restrictions; the last was a policy with twelve benefits, one condition and no restrictions whatever.

If you wish to know what the twelve benefits are and how much policies issued twenty years ago to men at your present age are now returning in cash to survivors, send your address and date of birth to the Home Office.

The Company's agents all carry copies of the certificate of the Superintendent of the Insurance Department, State of New York, showing that the Company had on hand January 1, 1893, assets (\$137,499,198.99) and surplus (\$16,804,948.10) as published.

The Company's Charter authorizes it to grant annuities, and to receive and execute trusts. Its "Accumulation Policy" is issued if desired, payable in 20, 25 or 30 equal annual installments.

Correspondence with investors solicited.



Fish and Fisheries Building

Copyright 1892 - H. Zeiss & Co. Chicago -

NATIONAL SAFE & LOCK CO.

Cleveland, Ohio.

Represented by

NORRIS & CO.

CHICAGO.

SAFES

WRITE US FOR
PRICES

If you want the best with
all the latest improvements.

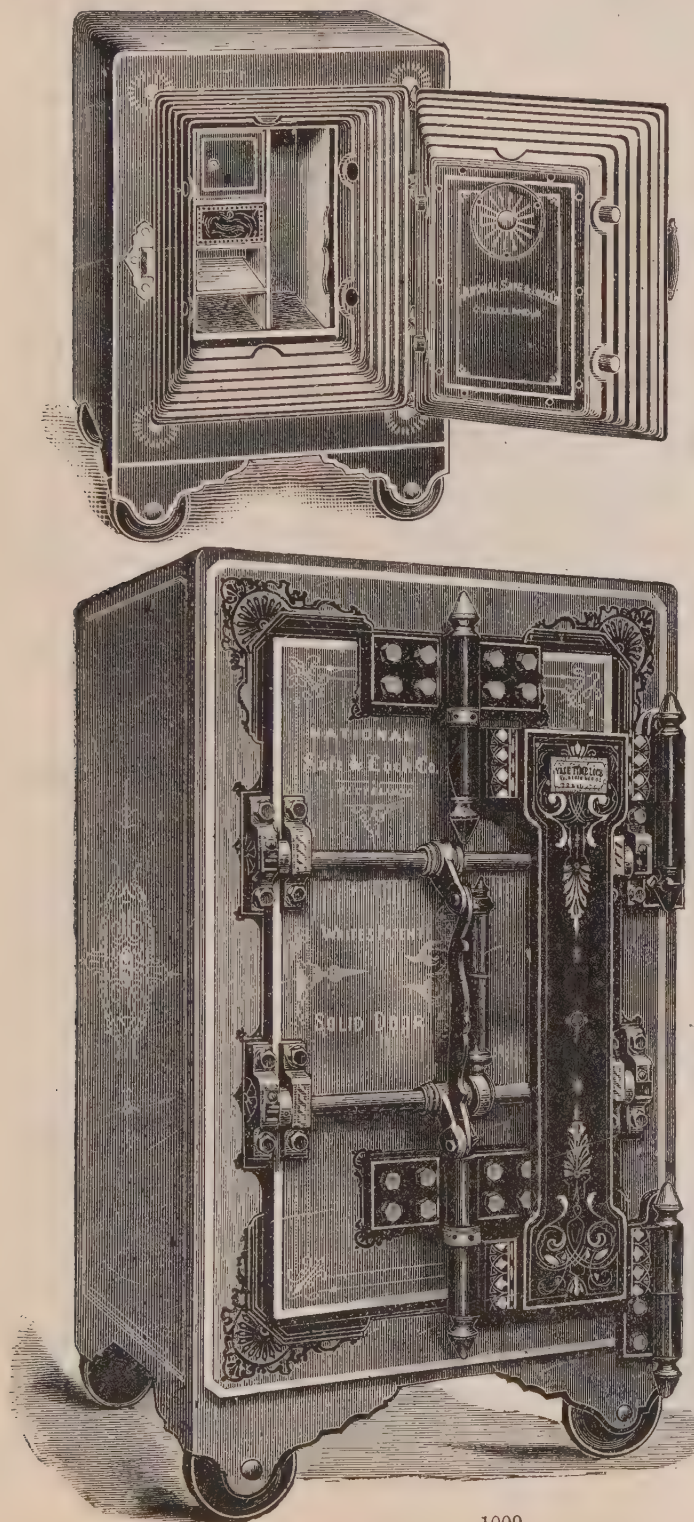
If you want to be sure that
your Safe will withstand
fire and water.

Over one hundred of these
Safes tested in Seattle and
Spokane, Wash., fires,
without a single loss. *

The only Safe that is abso-
lutely air and water tight,
with air-tight packing plate,
equivalent to an inside door.
The only Safe with eight-
inch doors. * * * *

NORRIS & CO.

NATIONAL
SAFE & LOCK CO.
147-149 FIFTH AVE.,
CHICAGO.



EIGHTEEN MEDALS.

WM. WOOLLAMS & CO. ORIGINAL MAKERS OF ARTISTIC WALL PAPERS

GUARANTEED FREE FROM ARSENIC.

All kinds of Wall and Ceiling Papers of the finest qualities, hand made.



REAL EMBOSSED LEATHER.

SOLE ADDRESS: HIGH STREET,
(NEAR MANCHESTER SQUARE)

LONDON, W.

**No Smoke! No Soot!
No Chimney Sweeping!
Enormous Saving in Fuel!**

BY THE USE OF

**LEGGOTT & MARSH'S
PATENT**

**Smoke-Consuming and Fuel-Economizing Kitchen Ranges
STEAM BOILERS AND ALL FIRES.**

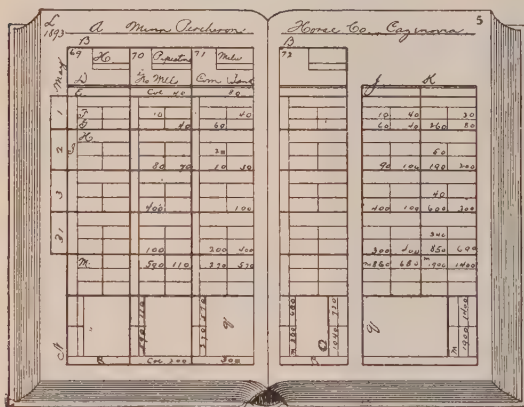
See our Exhibit in
MACHINERY HALL,
Sections K & R, 1-10.

Will Burn the Commonest Smudge.

Economy in Fuel, 50 to 70 per cent. saved.

ECONOMIC SMOKELESS FIRE CO.,

100 Shaftsbury Ave., LONDON, W.



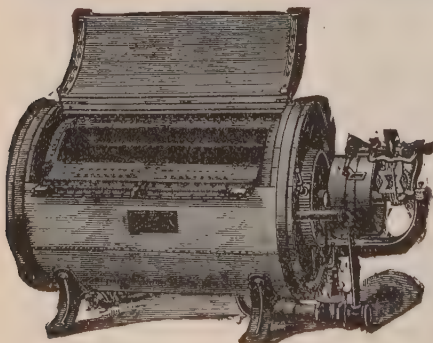
BROWN'S PATENTED ...

14 to 30 COLUMN LEDGER

Is a Combined Deposit and General Ledger for Banks or any other business.

Each Individual Transaction and the entire ledger is balanced daily, showing the payments and receipts. Also a monthly proof is made of the daily footings, a complete record showing the magnitude of all business done each day, month and year. Also the amount of business done with each party or account, and so plain that one may see at a glance the entire situation. For example and explanation address

**THEO. M. BROWN
CAZENOVIA, MINN.**



**Troy Laundry Machinery Co.
(LIMITED)**

Our Line of Laundry Machinery has all the latest improvements and is guaranteed to be the best for laundering all kinds of goods.

FACTORIES:

648 TO 650 FULTON ST.,
TROY, N. Y.

395 TO 401 FIFTH AVENUE,
CHICAGO, ILL.

SALESROOMS:

15 WARREN STREET,
NEW YORK.

583 MISSION STREET,
SAN FRANCISCO, CAL.

FOREIGN SALESROOMS:

116 Queen Victoria Street, London, E. C., England.

111 Wrangel Strasse, Berlin, S. O., Germany.

110 Rue De La Gare, St Denis, Paris.

DEPARTMENT D.—FISH AND FISHERIES.

SOON after the organization of this department great interest was manifested in this phase of the Exposition by those engaged in fish culture in this and other countries, and by those concerned in carrying on the commercial fisheries of the world. In nearly all sections of this country where fisheries are prosecuted committees were appointed to take such measures as are necessary for the promotion of fishery exhibits. Many of the State Fish Commissions prepared displays illustrative of their functions and the result of their efforts, while in some of the foreign countries special appropriations were made to enable the proper officials to prepare and bring to Chicago exhibits of fisheries and fish culture.

The Fisheries Department is intended to admit of the display, in the buildings erected for the purpose, of materials and collections illustrative of the commercial fisheries, fish and scientific inquiry upon the inland seas, lakes and object and purport of the department to illustrate and most graphic condition of fisheries and also their progress during the past four hundred years. Primitive methods and uncivilized means of specialized apparatus of fishing which tell of the progress of civilization. Fish are shown in various ways, viz: Alive, by casts, as mounted, are included fish-birds that have been taken from the fisheries as supplies of food and are enemies to fish, such as eels, frogs and other reptiles, are represented.



J. W. COLLINS, CHIEF.

angling, investigation, bear-habits of the rivers. It is the pride in the fullest manner the present world's fish-history, at least for the past few years. Shown side by side are the primitive appliances used by the natives and the highest modern methods of the science and industry of nations have and fish culture in various ways, viz: alcoholic specimens, etc. With these are included birds and come important to furnish support. Animals that are young and mammals, snakes, lizards,

For instance: Group 38 embraces ten classes, in which are included materials and apparatus employed in sea fishing and angling. This group contains the history of fishing, fishery laws and legislation, fishery commerce, implements used in ancient times, or reproductions of the same; reports and literature upon fish and fisheries, as well as statistics. Gear used in the trawl, herring, long line, hand line and all modes or systems of fishing; lines and rigged gear are included in this group. Other classes of the same group embrace all known apparatus and appliances employed in the prosecution of the commercial sea fisheries, and also those used by anglers in sport fishing for marine species. Vessels and boats used for conducting fishery operations or for angling are provided for in the last class of this group.

The next group, No. 39, comprehends fresh water fishing and angling. Under its several classes are exhibited nearly all of the interesting objects pertaining to the gentle art of angling, although its scope also embraces such apparatus and appliances as are used in the commercial fisheries prosecuted in fresh water.

The products of the fisheries, the machinery and appliances used in their manipulation or preparation, are classed in group numbered 40. This embraces models of fish-curing establishments and canneries, as well as methods, models, and other forms for representing appliances for drying, curing, salting, smoking, tinning, cooking and treating or preserving fishery products.

Primary and secondary products of all kinds, as well as tinned goods, are also embraced within this group. Fish preservatives, antiseptic and otherwise; oils obtained from marine animals; manures, guanos, fertilizers, as well as other classes of products, are arranged under this group.

Pearl shells from the ocean and rivers; mother of pearl, in the rough or manufactured; pearls as gems; sponges, corals, and all parts and products from aquatic animals, whether for purposes useful or ornamental, are embraced in this group.

The history of fish culture, and everything pertaining to the artificial propagation, acclimatization and transportation of aquatic animals are exhibited under group 41. This group is very comprehensive in scope, and embraces everything appertaining to investigations and results of experiments in the direction of utilizing the waters as a means of food supply.

Approaching the Fisheries Building from either front one is impressed with its beauty and general grace of construction. The tall dome towers high above the gables of the main structure, while the small turrets that adorn the dome and main entrances appear in pleasing contrast with the red-tiled roof, columns, and arches. Flanked on both the east and west by small pavilions and connecting arcades, the whole presents an architectural view of great magnificence. The infinite detail of fishes and other aquatic animals with which the columns, arches and friezes are decorated in bas-relief, is gratifying to the eye, and the skill and ingenuity displayed by the ornamentation are as remarkable for originality as for fitness.

Entering the building from the north the eye is immediately attracted to the display of Mexico on the right hand. Passing to the side aisle and turning to the right brings to full view the Russian collection, unique in many ways and with a wealth of caviare. The Norwegians show many kinds of sea fish, from the dry cod of the Lofotens to the spiced anchovies of Bergen. Here are also to be found a number of full-sized fishing boats, with their oars and lines.

Mexico, Russia, and Norway occupy the whole northwestern quarter of the Fisheries Building. Passing these and crossing the aisle to the south side the first display met is that of Great Britain, which embraces an attractive assortment of angling paraphernalia. The display is not large but choice. France, Australia, and Canada follow next in order, and the attention is arrested by the fine group of seals in the New South Wales display. The full-rigged, sharp-stern fishing boat, a duplicate of the one presented to the Prince of Wales ten years ago, occupies a conspicuous position in the Canadian section. The exhibits of Japan and the Netherlands are in the northeastern quarter of the building. Here the odd-shaped boats, together with implements and products of the Japanese fisheries, are displayed with much taste in decorative effect.

The Dutchman is present with a beautiful model of a North Sea herring lugger, one-seventh actual size, with a goodly assortment of Holland herring. In the eastern pavilion is located the fresh-water aquaria. Leaving the aquaria steps are retraced to the main building, through the western arcade to the angling pavilion. Here is the angler's paradise—an array of rods, reels, flies, hooks, landing nets, gaffs, boats, clothing, wading boots, etc., is presented in great profusion. Brazil has a section in the building where is arranged its collection of aquatic fauna, its fishing boats and apparatus of capture. A part of the building is used by Pennsylvania and Wisconsin, in which is shown the work accomplished in fish culture.

Ten of the individual States of the Union show collective exhibits of the fisheries of their waters. Another interesting feature is the weather-worn fishing

boat used by the famous Ida Lewis—the American Grace Darling—in her heroic life-saving deeds.

The Fisheries Building is a large central structure with two smaller polygonal buildings connected with it on either end by arcades. The extreme length of the building is 1,100 feet, and the width 200 feet. It is located to the northward of the United States Government Building. In the central portion is the general fisheries exhibit. In one of the polygonal buildings is the angling exhibit, the aquarial and fish cultural displays of Pennsylvania and Wisconsin; exhibits of mounted and cast specimens of fish from Ohio and Missouri; fish paintings from Vermont and the Hawaiian islands, and the interesting collections from Brazil and other countries, and the other is devoted entirely the aquaria. The exterior of the building is Spanish-Romanesque, which contrasts agreeably in appearance with that of the other buildings. To the close observer the exterior of the building can not fail to be exceedingly interesting, for the architect exerted all his ingenuity in arranging innumerable forms of capitals, modillions, brackets, cornices and other ornamental details, using only fish and other sea forms for his motif of design. The roof of the building is of old Spanish tile, and the side walls of pleasing color.

The total amount of floor area in the main building is 55,536 square feet; in addition there is a gallery thirty feet wide, running the entire length and breadth of the structure, and on both sides. The gallery space amounts to 27,120 square feet. At the wall side of the gallery floor, the gabled roof leans somewhat, and, together with the roof braces, affords pretty little booths, or bays. These bays are considered the most effective arrangement of space for exhibits, and therefore it is a matter for congratulation that the requirements of construction do not in any manner conflict with the needs of the exhibitor.

In the center of the polygonal building is a rotunda sixty feet in diameter, in the middle of which is a basin or pool twenty-six feet wide, from which rises a towering mass of rocks, covered with moss and lichens. From clefts and crevices in the rock crystal streams of water gush and drop to the masses of reeds, rushes and ornamental semi-aquatic plants in the basin below. In this pool gorgeous gold fishes, golden ides, golden tench and other fishes disport. From the rotunda one side of the larger series of aquaria may be viewed. These are ten in number, and have a capacity of 7,000 to 27,000 gallons of water each. Passing out of the rotunda, a great corridor or arcade is reached, where on one hand can be viewed the opposite side of the series of great tanks, and on the other a line of tanks somewhat smaller, ranging from 750 to 1,500 gallons each in capacity. The corridor or arcade is about fifteen feet wide. The glass fronts of the aquaria are in length about 575 feet and have 3,000 square feet of surface. The total water capacity of the aquaria, exclusive of reservoirs, is 18,725 cubic feet, or 140,000 gallons. This weighs 1,192,425 pounds, or almost 600 tons. Of this amount about 40,000 gallons is devoted to the marine exhibit. In the entire salt-water circulation, including reservoirs, there are about 70,000 gallons. The pumping and distributing plant for the marine aquaria is constructed of vulcanite. The pumps are in duplicate, and each has a capacity of 3,000 gallons per hour.

The government aquaria in the annex of the Fisheries Building have been converted into picturesque combinations of water and rock, where live fish are made to feel quite at home in congenial surroundings. In these aquaria trout, carp, golden ides, and gold fish disport. United States Fish Commissioner McDonald in speaking of the government exhibit said:

For three months we experimented with evaporating sea water and using the material for shipment to Chicago in order to avoid sending water so far inland. For some mysterious reason the revamped sea water we thus obtained would not do, and the fish died. We have found that by mixing a brine made from Turks' Island salt with natural sea water, half and half, fish got along nicely in the combination. This is what we use in the aquaria. In all we have about 70,000 gallons of sea water for the salt water fish. As it is something we can not afford to waste, our arrangements for its purification are complete. It is conducted from the aquaria in rubber tubes to the filter, which is located in the cellar. This consists of stone, gravel, and sand made

in strata, as in natural soil. The water comes from the aquaria into the top of the filter and is drawn off from the bottom after it percolates through the sand and gravel. It then runs off into a cistern with a capacity of 60,000 gallons. A duplicate set of pumps, run by electric dynamos, drives the water again to the reservoir in the top of the building. From there it runs back into the aquaria, entering through a jet just above the surface. The entering stream carries enough air with it to aerate the water and give the fish air. In the filter the top layer of sand will be changed frequently. With our fresh water fish lake water will do fairly well. It is not clear enough and must be filtered carefully. No attempt will be made to save it as with sea water.

The government aquaria are in a circular building nearly 100 feet in diameter. A row of aquaria lines the outer walls with the space broken only at the doors. The effect as one passes through the aisle is as if he were walking on the bottom of a lake with the waters held back by a heavy plate glass. The inner row of aquaria is 12 feet wide and in the center of the building a mound of aquatic and semi-aquatic plants.

On the inner row is the big aquarium for the Mississippi river. It is 72 feet long, 12 feet wide, and 5 feet deep. A submerged bank, such as is so often seen in western rivers, rises from the bottom of sand and gravel. Nearly every variety of fish found in the Mississippi valley is there. Catfish, eighty pounds in weight and seven inches between the eyes, and sturgeon, five, six, and seven feet long, are in the aggregation, with pickerel, outclassing the record, for company. A series of aquaria, showing all varieties of trout and salmon, extends along the south side of the building.

The fish from the great lakes have been gathered at the Put-in Bay Station on Lake Erie, and include sturgeon, whitefish, perch, bass, and herring, as the leading varieties. There are 100 varieties of fish and as many species of invertebrates.

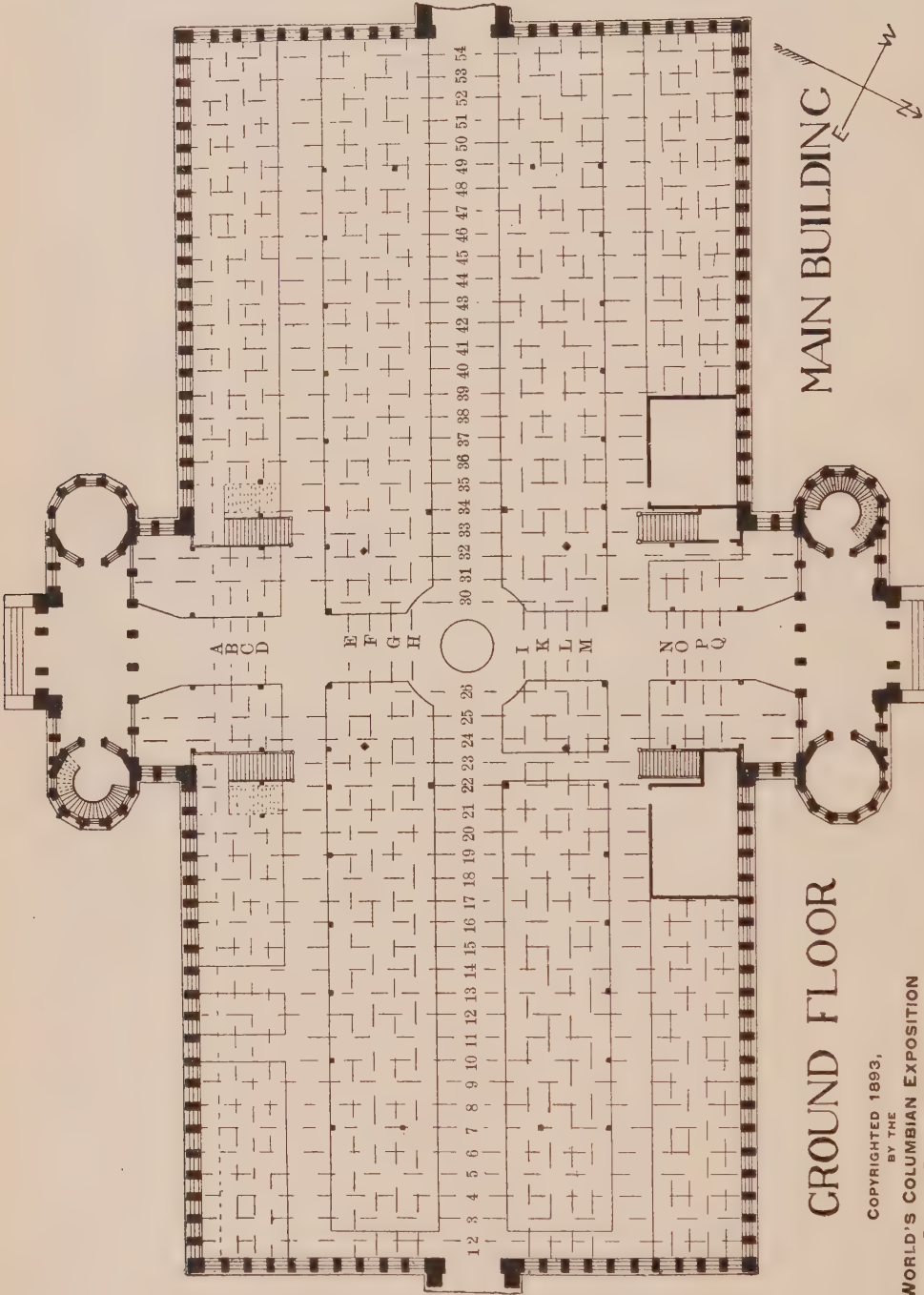
In June the government fish car will be sent to Seattle, Wash., and will bring as good a showing of Pacific coast fish as can be carried so far in the car. The main varieties will be the Chinook and steelhead salmon and the varied trouts of the West. There is in reality little difference between the leading varieties of the two coasts.

Until the natural warmth of the water here reaches 60 degrees no fish will be brought from the Gulf of Mexico. In midsummer the trouble will be that the water will be too warm, and artificial means of cooling it will be used. Many salt-water varieties do not live long in aquaria, even under the most favorable conditions, and these must be replenished by new shipments during the progress of the Exposition.

Next to the west door of the annex is an aquarium radiant with bright colors of anemones, growing over the grottoes. Algæ of every line grow there. It is likewise the home of star fish and sea urchins. The microscopic algæ, which are propagated as food for the anemones, prevent the water being drawn off to put through the filter. To aerate it an automatic contrivance is used which forces the air into the bottom of the aquarium, it passing through the water in small bubbles.

KEY TO INSTALLATION.

The design of the Fish and Fisheries Building differs from that of all the other department buildings, the main structure being circular in form and ornamented with two wings known as polygonal buildings. The ground floor of the central building is laid off into spaces for exhibits, indicated by numbers and the cross sections lettered, which by tracing the lines from the letter to the number, as for instance, A-4, will be easily found. By referring to the name of the exhibitor, or the name of the country or State, and then looking on the diagram the space occupied by the exhibit is indicated.



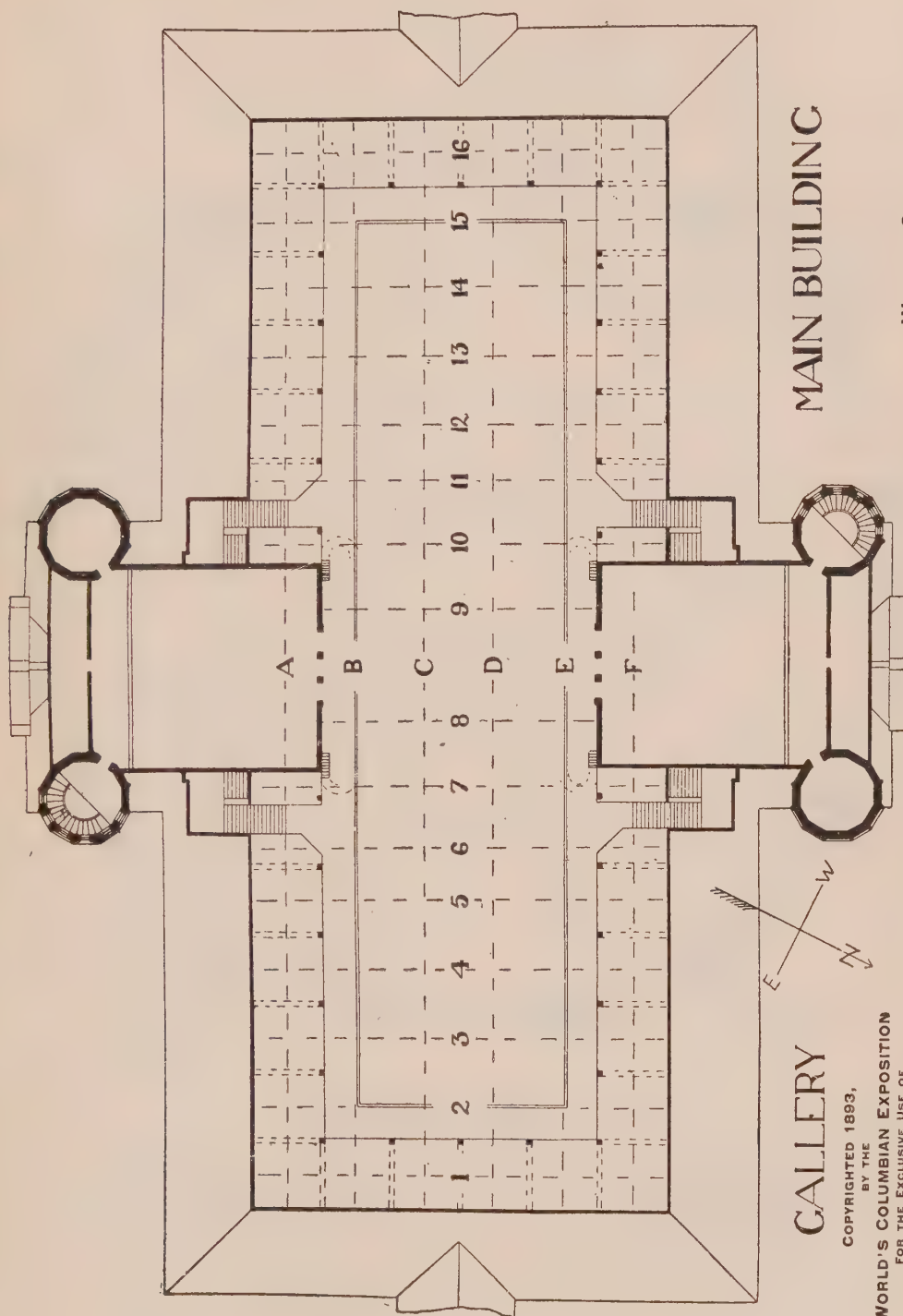
GROUND FLOOR

MAIN BUILDING

COPYRIGHTED 1893,
BY THE
WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO.

WORLD'S COLUMBIAN EXPOSITION.

Fish and Fisheries Building



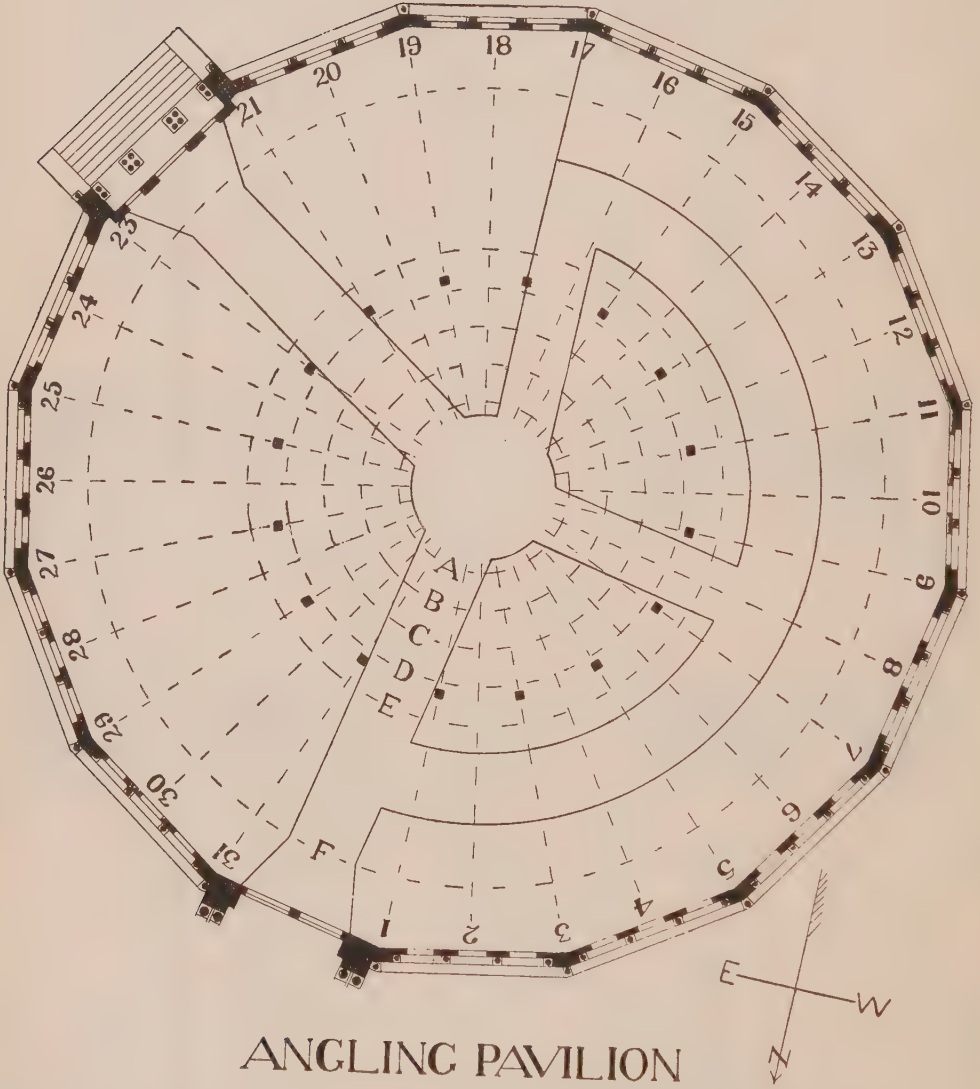
MAIN BUILDING

WORLD'S COLUMBIAN EXPOSITION

Fish and Fisheries Building

GALLERY

COPYRIGHTED 1893,
BY THE
WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO.



ANGLING PAVILION

COPYRIGHTED 1893,
BY THE
WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B CONKEY COMPANY,
CHICAGO.

FISH AND FISHERIES BUILDING,

WORLD'S COLUMBIAN EXPOSITION.

CLASSIFICATION.

FISH AND FISHERIES DEPARTMENT (D).

FISH, FISHERIES, FISH PRODUCTS AND APPARATUS OF FISHING.

GROUP 37.

FISH AND OTHER FORMS OF AQUATIC LIFE.

- Class 239. Aquatic life. Scientific collections and literature.
Works on aquatic zoology and botany. Maps illustrating geographical distribution, migration, etc., of fishes and other aquatic animals.
Specimens and representations illustrative of the relations between extinct and existing forms of life.
Specimens (marine and fresh water), fresh, stuffed or preserved, in alcohol or otherwise, casts, drawings and representations of objects named in the following classes.
- Class 240. Algæ, genera and species, with localities.
Class 241. Sponges, corals, polyps, jelly-fish.
Class 242. Entozoa and epizoa.
Class 243. Oysters, clams and mollusca of all kinds; shells.
Class 244. Star-fishes, sea-urchins, holothurians.
Class 245. Worms used for bait, or noxious; leeches, etc.
Class 246. Crustacea of all kinds.
Class 247. Fishes, living or preserved, or represented by casts, drawings or otherwise.
Class 248. Reptiles, such as tortoises, turtles, terrapins, lizards, serpents, frogs, newts.
Class 249. Aquatic birds.
Class 250. Aquatic mammalia, otters, seals, whales, etc.
Class 251. Characteristic plant and animal life at great depths.
Class 252. Fishing grounds.

GROUP 38.

SEA FISHING AND ANGLING.

- Class 253. History of fishing, fishery laws, and fish commerce.
Ancient fishing implements or their reproductions.
Models, pictures, books, emblems.
Charters and seals of ancient fishermen's guilds.
Fishery laws of different countries.
Copies of treaties, conventions, etc., dealing with international fishery relations.
Reports, statistics and literature of fish, fishing and fisheries. Reports of acclimatization of fish and of attempts in that direction.
- Class 254. Gear of every description and of all nations, used in trawl, herring, long line, hand line and every other mode or system of fishing; fishing lines and rigged gear.
- Class 255. Fish hooks, jigs and drails.
Class 256. Fishing rods and reels for lines and nets.
Class 257. Nets and seines, rakes and dredges, and materials used in their manufacture.
Class 258. Fish traps, weirs and pounds.
Class 259. Fishing stations and their outfit.
Class 260. Knives, gaffs and other apparatus.
Class 261. Illustrations of special fisheries. The whale and seal, cod, mackerel, halibut, herring, haddock, pollock, menhaden, sword-fish, bluefish, oyster, sponge and other sea fisheries.
Class 262. Fishing boats and vessels.

GROUP 39.

FRESH WATER FISHING AND ANGLING.

- Class 263. History and literature of angling. Waltonian literature. Folk-lore. Angler's trophies.
- Class 264. Salmon nets and fixed appliances for catching salmonidæ in all their varieties.
Class 265. Salmon rods, reels, lines, artificial flies and baits, gaffs, spears, creels, etc.
Class 266. Bass, pike, perch rods, reels and tackle, artificial spinning baits, etc.
Class 267. Traps, nets, bucks, wheels, and all kinds of apparatus for catching eels, lampreys, etc.
- Class 268. Angler's apparel of every description.
Class 269. The angler's camp and its outfit.
Class 270. Illustrations of special fresh water fishery. Shad and alewife, sturgeon, eel, salmon, whitefish, the Great-Lake fisheries, etc.

GROUP 40.

PRODUCTS OF THE FISHERIES AND THEIR MANIPULATION.

(See also, in part, Groupe 6 and 17.)

- Class 271. Models of fish-curing and canning establishments. Methods of, and models, and other representations of any appliances for drying, curing, salting, smoking, tinning, cooking, etc.
- Class 272. Fish, dried, smoked, cured, salted, tinned or otherwise prepared for food.
- Class 273. All products prepared from fish, such as oils, roes, isinglass, etc.
- Class 274. Antiseptics suitable for preserving fish for food.
- Class 275. Oils, manures and other products prepared from fish.
- Class 276. Methods of, and models, and other representations of appliances for preparing oils and manures from fish.
- Class 277. Sea and fresh water pearl shells, mother-of-pearl, manufactured; pearls, sorted.
- Class 278. Preparation and application of sponges, corals, pearls, shells and all parts and products of aquatic animals, etc., to purposes useful and ornamental, with specimens.
- Class 279. Appliances for carrying fish and for preserving fish during transport or otherwise, and models of the same. Models of fish markets and appliances connected with the same.

GROUP 41.

FISH CULTURE.

- Class 280. The history of fish culture.
- Class 281. Hatching, breeding and rearing establishments, including oyster and other shell-fish grounds.
- Class 282. Apparatus and implements connected with fish culture and for transporting fish and fish ova. Food for fry.
- Class 283. Representations illustrative of the development and progressive growth of fish
- Class 284. Models and drawings of fish-ways and fish ladders.
- Class 285. Diseases of fish, with special reference to their origin and cure. Models and drawings.
- Class 286. Processes for rendering streams polluted by sewerage and chemical or other works innocuous to fish life. (Illustrated by models and drawings.)
- Class 287. Physico-chemical investigation into those qualities of salt and fresh water which affect aquatic animals; investigation of the bottom of the sea and of lakes, shown by samples; aquatic plants in relation to fishing, etc.; researches into the aquatic fauna (animals of the several classes preserved in alcohol, or prepared, etc.); apparatus and implements used in such researches.
- Class 288. Acclimatization of fish. Marking of introduced fish for purposes of identification.
- Class 289. Statistics of the results of fish culture. Specimens of fish artificially propagated or introduced.

Department D.--Fish, Fisheries, Etc.

UNITED STATES.

GROUP 37.

Fish and Other Forms of Aquatic Life.

1. Aiken, Walter, Franklin, N. H.
Paintings of fishes. Pav. F-17 24
2. Anclote & Rock Island Sponge Co.,
Tarpon Springs, Fla. Gal. F-5
 - a Sponges. 241
 - b Shells with sponge growths. 243
3. Gloucester Board of Trade, Gloucester,
Mass. Fishes and other forms of aquatic
life illustrated by preserved specimens,
casts, drawings, etc. F-23 239
4. Jennings, E. L., Titusville, Fla.
Gal. F-4
 - a Florida sponges and corals. 241
 - b Florida shells (Mollusks). 243
5. Marston, J. W., & Co., Boston. Casts
of lobsters. Main B-9 246
6. McClanahan, E. B., Waukegan, Ill.
Mounted brook trout. Pav. E-15 247
7. McCullough, Mrs. M. S., Philadelphia.
Mounted marine algæ. Gal. F-9 240
8. Minnesota, State.
 - a Maps showing distribution of species
of fishes. O-2 239
 - b Specimens of Minnesota fishes. 247
 - c Aquatic birds destructive to fishes. 249
9. Missouri, State. Mounted fishes.
Pav. B-12 247
10. Neal, John R., & Co., Boston. B-5
 - a Cast of swordfish; frozen fishes. 247
 - b Charts of fishing grounds. 252
11. North Carolina, State. Specimens of
fishes, mammals, birds and marine inver-
tebrate. K-6 239
12. Ohio State. Casts and specimen of
Ohio fishes. Pav. C-11 247
13. Pennsylvania, State. Aquarial ex-
hibit of fishes, colored sketches of fishes.
Pav. E-29 247
14. San Diego High School, San Diego,
Cal. F-3
 - a Sea-weed (Algæ). 240
 - b Shells (Mollusks). 243
 - c Star fishes, sea-urchins, etc. 244
 - d Crustaceans. 246
 - e Mounted and dried fishes. 247
 - f Turtles. 248
15. Seidler, Henry, Chicago.
 - a Storm worm. Gal. F-7 245
 - b Shrimp. 246
 - c Preserved fish specimens. 247
16. Washington State.
 - a Maps and charts. Main M-25 239
 - b Clams. 243
 - c Star-fishes. 244
 - d Crabs. 246
 - e Fishes; fresh, mounted, cast and
alcoholic specimens. 247
 - f Skeleton of humpback whale. 250
17. Wisconsin, State.
 - a Aquatic plants (Algæ). Pav. E-25 240
 - b Shrimps, etc. (Crustacea). 246
 - c Aquarial exhibit of fishes. 247

GROUP 38.

Sea Fishing and Angling.

18. American Net & Twine Co., Boston.
 - a Nets, seines and material. B-20 257
 - b Fish traps, pounds, etc. 258
19. Ams, Max, New York.
 - a Mounted Atlantic sturgeon. K-20 247
 - b Sturgeon gill nets. 252
 - c Boats for sturgeon fishery. 267
20. Anclote & Rock Island Sponge Co.,
Tarpon Springs, Fla. Sponge boats and
outfits. Gal. F-5 262
21. Booth, A., Packing Co., Chicago. Fresh
and canned fish and oysters. P-25 261
22. Bristow & Dixon, Stormont, Va. Oys-
ter tongs. C-12 257
23. Gloucester Board of Trade, Gloucester,
Mass.
 - a Reports, statistics and literature,
showing progress of the Gloucester
fisheries. F-23 253
 - b Fishing gear. 254
 - c Fish-hooks, jigs and drails. 255
 - d Nets, seines, rakes and dredges. 257
 - e Fish-traps, weirs and pounds. 258
 - f Fishing stations and outfits. 259
 - g Fish-knives, gaffs, etc. 260
 - h Illustrations of special fisheries. 261
 - i Fishing boats and vessels. 262
24. Marston, J. W., & Co., Boston.
 - a Lobster gear. Main B-9 254
 - b Lobster traps. 258
 - c Wharf, building and cars for lobster
fishing. 262
 - d Lobster boat. 262
25. Minnesota, State.
 - a Photographs and drawings illustrat-
ing fisheries. O-2 253
 - b Fishing canoe with Indians. 262
26. Mumford, Wm. B., Kansas City, Mo.
Fish trap. Gal. F-6 258
27. Neal, John R., & Co., Boston.
 - a Models of schooners, dory, etc. B-5 262
 - b Gear and lines. 254
 - c Mackerel jigs. 255

DEPARTMENT D.—FISH, FISHERIES, ETC.

- d* Gill nets. 257
e Cape Cod fish weir, etc. 258
f Mackerel gaffs, etc. 260
g Illustrations of special fisheries. 261
 28. North Carolina, State. Photographs and maps of coast region; models of fishing gear and appliances. K-6 253
 29. Rhode Island, State.
a Gear and lines used in Rhode Island fisheries. F-9 254
b Nets, seines, rakes and dredges. 257
c Fish traps, weirs and pound-nets. 258
d Fishing knives, gaffs, etc. 260
e Illustrations of Rhode Island fisheries. 261
f Fishing boats and vessels. 262
 30. Washington State.
a Photographs, reports and statistics of fisheries. M-25 253
b Fishing gear; native implements; Siwash fishing gear. 254
c Nets and seines. 257
d Models of fishing boats and vessels. 262

GROUP 39.

Fresh Water Fishing and Angling.

31. Acme Folding Boat Co., Miamisburg, Ohio. Folding boats. Pav. F-7 269
 32. Angell, Albert, East Orange, N. J. Artificial baits. Pav. E-15. 266
 33. Benson, A. G., Philadelphia.
a Combined gaff-hook and landing-net. Pav. C-6 265
b Rod, ferrule joint. 266
 34. Buel, J. T., Co., Whitehall, N. Y. Artificial baits and trolling spoons. Pav. A-3 266
 35. Comstock, A. S., Evanston, Ill. Tent for anglers. Pav. F-11 269
 36. Forest & Stream Publishing Co., New York. Publications and illustrations of angling. Pav. F-1 263
 37. Gold Medal Camp Furniture Co., Racine, Wis. Folding camp furniture. Pav. F-13 269
 38. Graves, Calvin V., Natural Bridge, N. Y. Trolling bait. Pav. D-14 266
 39. Harris, Wm. C., New York. Paintings and publications of angling. Pav. F-2 263
 40. Hibbard, Chas. B., Grand Rapids, Mich. Artificial baits and trolling spoons. Pav. D-9 269
 41. Horten Mfg. Co., Bristol, Conn. Fishing rods. Pav. E-11 266
 42. Howarth, Samuel, Florissant, Col. Artificial flies, fishing tackle. Pav. D-7 266
 43. Meisselbach, A. F. & Bro., Newark, N. J. Fishing reels, landing-net frames, rod-holder. Pav. E-9 266
 44. Milam, B. C., & Son, Frankfort, Ky. Fishing reels. Pav. A-5 266
 45. Osgood Portable Boat Co., Battle Creek, Mich. Folding fishing boats and fittings. Pav. F-4 269
 46. Rosatka, Joseph, Chicago. Automatic fishing tackle. Pav. F-15 266
 47. Shipley, A. B., & Son, Philadelphia. Rods, reels, flies and tackle. Pav. E-4 266
 48. Skinner, Gardiner M. Clayton, N. Y. Trolling spoons. Pav. F-15 266
 49. Spalding, A. G., & Bros., New York. Fishing rods. Pav. C-9 266
 50. Stagg, Mrs. Essel, Frankfort, Ky. Mounted tarpon with tackle. Pav. E-15 263
 51. Vom Hofe, Julius, Brooklyn, N. Y. Fishing reels. Pav. E-7 266
 52. Waltonian Manufactory Co., Chicago. Artificial flies. Pav. F-14 266
 53. Webb, C. T., Cincinnati, Ohio. Paintings of Izaak Walton and angling scenes. 263
 54. Yawman & Erbe, Rochester, N. Y. Fishing reels. Pav. E-13 266

GROUP 40.

Products of the Fisheries and Their Manipulation.

55. Ams, Max, New York. Main-K-20
a Smoked and canned fish. 272
b Caviare. 273
 56. Anclothe & Rock Island Sponge Co., Tarpon Springs, Fla. Models of sponge press and appliances. Gal. F-5 271
 57. Booth, A., Packing Co., Chicago. Canned goods. P-25 272
 58. Burnham, Edw. K., Gloucester, Mass. Canned mackerel. M-19 272
 59. Burnham & Morrill Co., Portland, Maine. Canned fish. N-25 272
 60. Gloucester Board of Trade, Gloucester, Mass.
a Models and methods of handling and curing fish. F-23 271
b Cured and preserved fish. 272
c Products of fisheries. 273
d Appliances for preparing fish products. 276
e Models of fish markets, wharves, appliances for handling fish, etc. 279
 61. Gloucester Isinglass & Glue Co., Gloucester, Mass.
a Fish glues and isinglass. H-15 273
b Fish glue articles. 278
 62. Holmes, Eben A., Eastport, Maine. Canned sardines and lobsters. M-2-1 272
 63. Kelley, Ezra, New Bedford, Mass. Black fish oil for watches. M-12 275
 64. Mann Bros., Chicago. Pails for shipping oysters. C-11 279
 65. Marston, J. W., & Co., Boston.
a Model of building and appliances for lobster industry. Main B-9 271
b Models of lobster market and appliances. 279
 66. Megler, J. G., & Co., Brookfield, Wash. Canned salmon. K-23 272
 67. Meierdiecks, J. A., & Sons, New York. Salt and preserved fish. M-23 272
 68. Neal, John R., & Co. Boston.
a Models illustrating lobster industry. B-5 271
b Appliances for fish markets. 279
 69. Nye, Wm. F., New Bedford, Mass. Watch, clock and chronometer oil. M-13275
 70. Rhode Island State.
a Cured and preserved fish. F-9 272
b Products prepared from fish. 273
c Fishoil, manufacture, etc. 275

UNITED STATES.

71. **Russia Cement Co., Gloucester, Mass.**
a Fish glue, sizings, mucilage, etc. F-13 273
b Fish fertilizers. 275
c Fish glue articles. 278
72. **Stanley, Mrs. A. C., Ashton, R. I.**
 Pictures of shell work. Gal. F-7 278
73. **Thidorian, Zohrap K., Brooklyn, N. Y.**
 Cod-liver oil. G-O-5 275
74. **Tobin, John, Chicago.** Fish scaling machines in operation. K-12 279
75. **Washington State.** Fish; cured, smoked, canned, etc. M-25 272
76. **Wilzinski, L., Chicago.** Sturgeon sounds. Main E-17 273
77. **Wolff & Reessing, New York.** I-23 272
 Canned sardines, lobsters, mackerel, etc.

GROUP 41.

Fish Culture.

78. **Minnesota State.** Drawings and specimens showing development of the pike-perch. O-2 283
79. **Jewell, O. H., Filter Co., Chicago.**
 Water filters. Beneath East Arcade. 282
80. **Pennsylvania State.** Pav. E-29
a Model of fish hatchery. 281
b Apparatus for fish culture in operation. 282
c Models of fish-ways. 284
81. **Wisconsin State.** Fish hatching apparatus in operation, Pav. E-25 282

NORTH CAROLINA.

GROUP 37.

1. **Brimley, H. H., Raleigh.**
a Fossil oysters. 243
b Mounted fishes. 247
c Mounted frogs. 248
d Mounted aquatic birds. 249
e Mounted aquatic mammals. 250
2. **Capehart, W. R., Avoca.** Mounted fishes. 247
3. **Clarke & Morgan, New Berne.**
a Mounted aquatic birds. 249
b Mounted aquatic mammals. 250
4. **Davis & Son, Wilmington.** Mounted fishes. 247
5. **Duffy, Miss A. W., Raleigh.**
a Mounted aquatic birds. 249
b Mounted aquatic mammals. 250
6. **Ives, G. N. & Son, New Berne.**
a Oysters and clams. 243
b Mounted fishes. 247
c Mounted aquatic birds. 249

7. **Skarren, L. A. & Co., Beaufort.**

- a* Oysters and clams. 243
b Mounted fishes. 247
c Mounted aquatic birds. 249
8. **Yopp, W. H., Wilmington.** Mounted fishes. 247

GROUP 38.

9. **Gloucester Net & Twine Co., Boston, Mass.**
a Models of fishing gear. 254
b Netting and twine. 257
10. **Leary, J. L., Edenton.** Model of fishing boat. 262
11. **Wade, A. D., Beaufort.** Model of sharpie. 262

GROUP 40.

12. **Capehart, W. R., Avoca.**
a Salted and smoked fish. 272
b Salted and smoked roe and caviare. 272

BELGIUM.

GROUP 40.

40. Tourrette-Petit, Brussels. Whalebones for dresses and corsets. 278

CANADA.

GROUP 37.

1. Canadian Government (Dep. Marine and Fisheries), Ottawa.
 - a* Aquatic life; stuffed fishes and aquatic birds and mammalia. 239
 - b* Algae, etc. 240
 - c* Sponges, etc. 241
 - d* Oysters and clams. 243
 - e* Star fishes. 244
 - f* Crustacea. 246
 - g* Preserved fishes. 247
2. Hatton, D., & Co., Bay du Vin, Que. Oysters and clams. 243

GROUP 38.

3. Callas, Robert, & Co., Paspebiac, P.Q. Models of fishing stations. 253
4. Canadian Government (Dep. Marine and Fisheries), Ottawa.
 - a* Fishing gear, primitive Indian fishing gear, etc. 254
 - b* Hooks, etc. 255
 - c* Seines and nets. 257
 - d* Models of hop nets, hops, pounds. 258
 - e* Fishing boats. 262
5. O'Shaughnessy, R., St. John, N. B. Fishing rods. 256

GROUP 39.

6. O'Shaughnessy, R., St. John, N. B. Artificial flies. 265
7. Smith, D. G., Chatham, N. B. Fishing-fly case. 265

GROUP 40.

8. Callas, Robert, & Co., Paspebiac, Que.
 - a* Models of fish-curing establishments. 271
 - b* Dried fish, cod sounds, boneless fish, sardines in oil. 272
9. Canadian Government (Dep. Marine and Fisheries), Ottawa.
 - a* Salted, smoked and frozen fish. 272
 - b* Fish, seal and whale oil. 275
10. Leslie, Wm., Magdalen Islands. Canned lobsters. 272
11. Letellier, J. B. E., Quebec. Sardines in oil. 272
12. Noble, R. B., Toronto. Canned lobsters. 272
13. Salmon Cannery, British Columbia. Canned salmon. 272

GROUP 41.

14. Canadian Government (Dep. Marine and Fisheries), Ottawa. Models of fishways. 284

CEYLON.

GROUP 38.

1. Ceylon Commission.
 - a* Fishing tackle. 254
 - b* Fishing boat. 262

GROUP 39.

2. Ceylon Commission. Nets, etc. 267

GROUP 40.

3. Ceylon Commission. Model of Ceylon pearl fishery and appliances. 271
4. Ceylon Government. Box of chanks. 278
5. Donnan, Capt. Pearl oysters. 277

GERMANY.

GROUP 37.

1. Lahmann, E. G. & Co., Leipsic. Aquaria. 239
2. Mayer, Martin, Mayence. Corals. 241

GROUP 38.

3. Mechanische Netzfabrik und Weberei, Itzehoe, Holstein. Fishing nets, etc. 267
4. Schwanemeyer, Karl, Iserlohn. Angling rods. 256
5. Stork, H., Munich. Fishing lines. 254

GROUP 39.

6. Mechanische Netzfabrik und Weberei, Itzehoe. Nets and seines; fishery outfits. 263
7. Schwanemeyer, Karl, Iserlohn. Fishing rods, reels, lines, etc. 265
8. Stork, H., Munich. Fishing lines, artificial fish and baits. 265

GROUP 41.

9. Deutscher Fischerei Verein, Berlin. Works upon fishery and fishery maps. 208

GREAT BRITAIN.

GROUP 38.

1. Anderson-Smith, Wm., Ledaig, Scotland. Literature of sea fishing and marine productions. 253
2. Baltimore School of Fishery. Baltimore, Ireland-
 - a Models of school. 253
 - b Fishing smack. 262
3. Bartlett, Wm., & Sons, Redditch. Fish hooks. 255
4. Buchanan, James, Glasgow, Scotland. Fish hooks and tackle. 255
5. Marine Biological Association of Great Britain. Publications on fisheries, marine zoology and botany. 253
6. Milward, Henry, & Sons, Ltd., Redditch. Fish hooks and fishing tackle. Dept. H 255
7. Rollit, Sir Albert, London. Model of steam trawler. 254
8. Stanley, Edward, London. Lobster and eel traps. 258

9. Turner, R., & Sons, Redditch. Fish hooks. Dept. H 255

GROUP 39.

10. Anderson, Anderson & Anderson, London. Anglers' apparel. 268
11. Turnbull, William, Edinburgh. Feathers for making salmon flies. 265

GROUP 40.

12. Allies, Cyril, Galway, Ireland. Dried ling. 272
13. Baltimore School of Fishery, Baltimore, Ireland. Cured mackerel. 272
14. Corner, A. & J. Q., Wick, Scotland. Cured fish. 272
15. Macfarlane Bros., Stornoway, Scotland. Cured fish. 272
16. Mowat, Robert, Lybster, Scotland. Cured fish. 272

NORWAY.

GROUP 37.

1. Bergen, Committee at, Bergen.
 - a Sea-weeds. 240
 - b Mussel shells. 243
 - c Casts of Norwegian fishes. 247
 - d Aquatic birds. 249

GROUP 38.

2. Haaland, Lauritz, Stavanger. Paintings of herring fisheries. 261
3. Holck, Julius, Bergen. Paintings of whale fishing, etc. 261
4. Aker's Varksted, Christiania. Model of whaling steamer. 262
5. Bergen, Committee at, Bergen.
 - a Maps, drawings and literature illustrating fisheries. 253
 - b Fishing gear and lines. 254
 - c Nets; seines; models of seines. 257
 - d Weirs; lobster traps; eel traps. 258
 - e Knives, gaffs; other apparatus. 260
 - f Collection of fishing boats; models of vessels. 262
6. Christiansunds Slyngefabrik, Christiansund. Fishing lines. 254
7. Dietrichson, J. L. W., Molde. Maps showing statistics of Norwegian fisheries, 1866-1890. 253
8. Fagerheims Netfabrik, Bergen. Nets; seines; apparatus. 257
9. Hansen, O. C., Skudesnaes. Foghorn. 260
10. Henriksen, H., Tönsberg. Guns, harpoons and equipment for whales and porpoises. 261

11. Irgens, Jorgen, Bergen. Hooks with artificial bait. 255
12. Jacobsen, Benjamin, Selsovig. Seine for cod fishing. 257
13. Johannesen, J., Bergen. Fish hooks. 255
14. Johnsen, John, Bergen. Fishing boats. 262
15. Jörnson, M., Tönsberg. Apparatus for catching whales and porpoises. 261
16. Knudsen, Johan, M., Aalesund. Self-regulating line buoy. 254
17. Norsk Husflids, Skole, Christiania. Fish nets. 257
18. Rudstrom, J. A., Fredriksstad. Foghorns and lanterns. 260
19. Schjott & Co., H. E., Bergen. Automatic mooring buoy and wave subducer. 260
20. Skaaluren, Knut, Bergen. Fishing vessels. 262
21. Tromsø Fiskeriforening, Tromsø. Photos relating to fisheries. 253
- 21a. Nordlands Fiskeriforening, Bodø.
 - a Fishing gear. 254
 - b Fish hooks. 255
 - c Herring and cod nets; herring net of 1840. 257
22. Wingaards Jernstøberier, Bergen. Winch for seines and sails. 260

GROUP 39.

23. Bergen, Committee at, Bergen. Fishermen's skin and oil clothing and equipments. 268
24. Paulsen, P., Lofoten. Fishermen's oilskin suits and boots. 268

DEPARTMENT D.—FISH, FISHERIES, ETC.

GROUP 40.

- | | | | |
|---|-----|---|-----|
| 25. Aagaard, Andr., Tromsø. | | 51. Hoddervik, Kristen, Moldoen. Cured | |
| <i>a</i> Cured fish. | 272 | klip fish, codfish, ling, cusk, etc. | 272 |
| <i>b</i> Cod liver oil. | 273 | 52. Holmboe, Joh. Rye, Tromsø. | |
| <i>c</i> Stearine, seal, shark, sperm and | | <i>a</i> Cod liver, fish and seal oils. | 273 |
| dolphin oils. | 275 | <i>b</i> Arctic and fish oils. | 275 |
| 26. Aalesunds Preserving Company, Ltd., | | 53. Holst, Johan, Bodø. Cured herring. | 272 |
| Aalesund. Cured fish; fish products. | | 53a. Holst, Sr., Theodor, Finnmarken. | |
| | 272 | <i>a</i> Stock-fish. | 272 |
| 27. Aalesund Hermetiske Fabrik, Aale- | | <i>b</i> Fish oils. | 273 |
| sund. Preserved fish products. | 272 | 54. Johnsen, Thv., & Co., Christiania. | |
| 28. Aastvedt Tøndefabrik, Bergen. Her- | | Mackerel; bloaters. | 272 |
| ring barrels. | 279 | 55. Jordan, C., Trondhjem. | |
| 29. Andersen's, Claus, Enke, Stavanger. | | <i>a</i> Cod liver oil and products. | 273 |
| Preserved fish products, etc. | 272 | <i>b</i> Fluid fish guano. | 275 |
| 30. Astrup, M. H., Christiansund | | 56. Jorgensen, J., Bergen. Smoked her- | |
| <i>a</i> Cured codfish, herring, etc. | 272 | ring, etc. | 272 |
| <i>b</i> Roe; cod liver oil. | 273 | 57. Kelpstad, H. B. Lofoten. Fish pro- | |
| 31. Backer, Fredrik, Bodø. | | ducts, etc. | 272 |
| <i>a</i> Apparatus for drying fish. | 271 | 58. Knudsen, Johan M., Aalesund. Her- | |
| <i>b</i> Shredded fish. | 272 | ring barrels. | 279 |
| 32. Barclay, M., Haugesund. Cured | | 59. Kvaerndal's Fabrik, Bergen. Pre- | |
| mackerel, bloaters, etc. | 272 | served fish products. | 272 |
| 33. Bergen Committee at, Bergen. | | 60. Larsen, Jacob, Bergen. Fish oils. | |
| <i>a</i> Fodder meal from whales. | 272 | | 273 |
| <i>b</i> Collection of products prepared from | | 61. Larsen, Jacob Joh., Bergen. Dry | |
| fish. | 273 | salted codfish. | 272 |
| <i>c</i> Fish guano; whale and fish oils. | 275 | 62. Leisner, Adolfine, Christiania. An- | |
| <i>d</i> Miscellaneous products of fisheries. | | chovies in kegs. | 272 |
| <i>e</i> Common cod-oil barrels. | 279 | 63. Lockert, Simon, Christiania. Cured | |
| 34. Bergen Kemiske Fabrik, Bergen. | | mackerel, etc. | 272 |
| <i>a</i> Iodine and calisath. | 273 | 64. Lund, Carl, Christiania. Anchovies | |
| <i>b</i> Fish guano, oils and scrap. | 275 | in kegs. | 272 |
| <i>c</i> Fish meal for cattle. | 272 | 65. Meidell, L. H., Bergen. Anchovies. | |
| 35. Bjelland, Chr., & Co., Stavanger. | | | 272 |
| Cured mackerel; preserved anchovies. | 272 | 66. Meyer, Heinr., Christiania. Cod liver | |
| | | oil. | 273 |
| 36. Bordewich & Co., Lyngvaer. | | 67. Möller, Chr., Christiania. Anchovies. | |
| <i>a</i> Fish meal; codfish, etc. | 272 | | 272 |
| <i>b</i> Fish skin for clearing coffee; roe. | 273 | 68. Möller, Peter, Christiania. Medicinal | |
| 37. Borthen, Tob. U., Trondhjem. | | cod liver oil, etc. | 273 |
| <i>a</i> Cod liver and fish oils. | 273 | 69. Monsen, Alf., Tonsberg. | |
| <i>b</i> Eiderdown. | 278 | <i>a</i> Fodder meal from whales. | 272 |
| 38. Conradsen, Johs., Stavanger. Pre- | | <i>b</i> Seal and whale products. | 275 |
| served fish products. | 272 | <i>c</i> Whale glue. | 273 |
| 39. Dagestad, Bodø. Cured herring. | | 70. Naesheim, Knud. K., Haugesund. Cod | |
| | 272 | liver oil. | 273 |
| 40. Dahl, N. P., Molde. Medicinal cod | | 71. Naess, Anton, Tromsø. | |
| liver oil. | 273 | <i>a</i> Dried and cured fish. | 272 |
| 41. Devold, Peter, Aalesund. Medicinal | | <i>b</i> Cod liver oil. | 273 |
| cod liver oil. | 273 | <i>c</i> Seal and shark oil. | 275 |
| 42. Egge, M. J., Haugesund. Cured her- | | 72. Nordland's Preserving Company, | |
| ring. | 272 | Bodø. Preserved fish, etc. | 272 |
| 43. Eidsvaag, Edvard, Henningsvaer. | | 73. Norsk Fiskemel Company, Chris- | |
| Cod liver oil; tanner oils. | 273 | tiania. | |
| 44. Ellingsen's, Andr., Sons, Skraaven. | | <i>a</i> Fish meal. | 272 |
| Cured coalfish. | 272 | <i>b</i> Fish glue; isinglass. | 273 |
| 45. Ellingsen, Carl M., Kvitnes. Cured | | 74. Olsen, Martin, Vardø. Dried codfish; | |
| codfish; split stockfish. | 272 | haddock. | 272 |
| 46. Farstad, S. A., Christiansund. Cod | | 75. Olsen, O., & Co., Bodø. Delicatessen | |
| liver oil; fish products. | 273 | herring. | 272 |
| 47. Fugelstad, Ion, Stavanger. Smoked | | 76. Olsen, Thv., Christiansund. Cured | |
| sardines in oil. | 272 | mackerel and herring. | 272 |
| 48. Gregersen, Bernh., Christiania. Pre- | | 77. Olsen & Kleppe, Stavanger. Pre- | |
| served anchovies. | 272 | served fish, etc. | 272 |
| 49. Halleland & Ripple, Haugesund. Cur- | | 78. Parelus & Lossius, Christiansund. | |
| ed mackerel, herring, etc. | 272 | <i>a</i> Dry, salted and boneless codfish, her- | |
| 50. Haugesund Tranforretning, Hauge- | | ring, etc. | 272 |
| sund. | | <i>b</i> Fish oils. | 273 |
| <i>a</i> Preserved fish products. | 272 | 79. Preserving Company, Bergen. Pre- | |
| <i>b</i> Cod liver oil. | 273 | served fish, etc. | 272 |
| | | 80. Quale, Ulrich, Bronø. Stock-fish; | |
| | | split cod, haddock, etc. | 272 |

NORWAY.

- | | |
|---|---|
| 81. Schöning's Sons, Grötö.
<i>a</i> Cured cat-fish skin. 273
<i>b</i> Stock-fish. 272 | 90. Thorsen, H., & Son., Bergen. Preserved fish products, etc. 272 |
| 82. Schöning, Wm., Stamsund. Preserved fish, etc. 272 | 91. Tonsberg Maskinölfabrik, Tönsberg. Refined whale oil; stearine. 275 |
| 83. Schreiner, Nilsen & Thiis, Stavanger. Canned fish, etc. 272 | 92. Tromsø Fiskeriforening, Tromsø.
<i>a</i> Stock-fish, etc. 272
<i>b</i> Arctic ocean products. 275 |
| 84. Skoneviks Preserving Company, Bergen. Canned fish products. 272 | 93. Troye, Johan, Jr., Bergen. Stock-fish, etc. 272 |
| 85. Smith, Gina, Christiania. Spiced anchovies. 272 | 94. Troye, Wm., Bergen. Herring, Stock-fish, etc. 272 |
| 86. Stangeland, Enok L., Sandnaes. Smoked sardines, etc. 272 | 95. Valvatne, H., Bergen. Preserved fish products, etc. 272 |
| 87. Sundfar, Radm., Kiberg. Cod liver oil. 273 | 96. Vigdal's Brug., Mosjøen.
<i>a</i> Smoked herring in oil. 272
<i>b</i> Fish guano. 275
<i>c</i> Fishmeal. 272 |
| 88. Tellefsen, Rina, Christiania. Delicatessen anchovies. 272 | |
| 89. Thesen, Johan, & Co., Bergen.
<i>a</i> Stock-fish. 272
<i>b</i> Cod liver oil, etc. 273 | |

GROUP 41.

97. Modums Fiskeriforening, Vikersund. Apparatus and implements for fish culture. 282

JAPAN.

GROUP 37.

1. Daikichi Hasegawa, Shizuoka. Sea-weeds. 240
2. Eitaro Sakata, Nagasaki. Tortoise. 248
3. Eizo Ezaki, Nagasaki. Tortoise. 248
4. Hambei Wada, Osaka. Kanten (edible substances prepared from sea-weed). 240
5. Hikobei Matsushita, Osaka. Kanten (edible substances prepared from sea-weed). 240
6. Hikozyuro Saito, Osaka. Kanten (edible substances prepared from sea-weed). 240
7. Ichisaburo Ota, Nagasaki. Shells. 243
8. Jikichi Kanamoto, Nagasaki. Corals. 241
9. Jyunichiro Ezawa, Chiba. Sea-ears. 243
10. Kambei Takagi, Tokyo. Shells. 243
11. Kanten Co., Hyogo. Kanten (edible substances prepared from sea-weed). 240
12. Katsuma Doi, Nagasaki. Shells. 243
13. Kiichiro Ishikawa, Shizuoka. Tsunomata (a sea-weed). 240
14. Keijiro Fukui, Osaka. Kanten (edible substances prepared from sea-weed). 240
15. Keizo Niki, Nagasaki. Algae. 240
16. Kogoro Inoue, Kanagawa. The Laminaria Japonica. 420
17. Shinrokuro Kuroda, Kyoto. Kanten (edible substances prepared from sea-weed). 240
18. Shirozaemon Tanaka, Kyoto. Kanten-gami (paper made from sea-weed). 240
19. Shirozaemon Tanaka, Osaka. Kanten (edible substances prepared from sea-weed). 240
20. Shotaro Nakamura, Osaka. Kanten (edible substances prepared from sea-weed). 240
21. Tamesaburo Hyashi, Nagasaki. Tortoise. 248

22. Tokyo Hoshinori Association, Tokyo. Nori (eatable sea-weeds). 240
23. Tomizakimura Mera, Chiba. Sea-ears. 272
24. Tsurutaro Saito, Shizuoka. Tokoroten. 240
25. Whale Fishing Co., Saga. Shells. 243

GROUP 38.

26. Ichibei Shibahara, Kyoto. Fish hooks. 255
27. Jyunai Samejima, Kumamoto. Fishing nets. 257
28. Kazutaka Ito, Hokkaido. History, etc., of the Northern Fishery Association; charts, statistics and illustrations of fish and fisheries in Hokkaido. 253
29. Kyoto Itomono Co., Kyoto. Fishing lines. 254
30. Motoyuki Nomura, Tokyo. Fishing poles. 256
31. Tokinosuke Shimoto, Akita. Fish hooks. 255
32. Toyonori Kashiwabara, Tokyo. Nets. 257

GROUP 40.

33. Awa Fishery Association, Chiba. Smoked and salted sardines. 272
34. Bunshiro Shibata, Osaka. Isinglass. 273
35. Chotaro Murayama, Hokkaido. Dried oysters, oyster sauce. 272
36. Eizo Asari, Hokkaido. Cod-liver and herring oil. 275
37. Fishery Association, Chiba. Salted sardines. 272
38. Gihei Takahashi, Hokkaido. Smoked and canned fish. 272
39. Heimon Yamaguchi, Shizuoka.
 a Salted mackerel. 272
 b Dolphin oil. 275
40. Heishiro Watanabe, Hokkaido. Cured herrings. 272

DEPARTMENT D.—FISH, FISHERIES, ETC.

41. Kakubei Suwara, Hokkaido. Her-	48. Seiichiro Mokutani, Shizuoka.
rings' lees. 275	<i>a</i> Salted mackerel. 272
42. Kamejyu Minohe, Aomori. Sardine	<i>b</i> Shark oil. 275
oil. 275	49. Shichisaburo Takeuchi, Yamaguchi.
43. Kazutaka, Ito, Hokkaido.	Salted sardines. 272
<i>a</i> Dried, cured and canned fish. 272	50. Shimezo Fukumoto, Shizuoka. Salted
<i>b</i> Fish oils and paste materials. 273	mackerel. 272
<i>c</i> Manures. 275	51. Shizuoka Fertilizer Co., Shizuoka.
44. Kiyozo Sato, Shizuoka. Salted	Fish oil. 275
mackerel. 272	52. Teijiro Nashikawa, Hokkaido. Her-
45. Koho Shimomura, Hokkaido. Smoked,	rings' lees. 275
cured and pressed fish. 272	53. Zempachi Muramatsu, Shizuoka.
46. Matsuzo Murata, Yamaguchi. Salted	Smoked mackerel. 272
mackerel. 272	
47. Ryuhei Suzuki, Shizuoka.	
<i>a</i> Salted mackerel. 272	
<i>b</i> Dolphin oil. 275	



MONTANA STATE BUILDING.



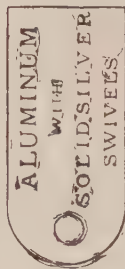
CHAINS

Sterling Silver Center Gold, Gold Filled, Rolled Plate, Seamless Rolled Plate, Sterling Silver and Pure Aluminum.



C CHATELAINS
H VICTORIAS
A QUEENS
I Ladies' Vest
N GUARDS
S NECKLACES

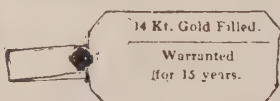
BEST QUALITY SEAMLESS GOLD FILLED.



PURE ALUMINUM.



TALKS FOR ITSELF.



REGULAR QUALITY.



REGULAR QUALITY SEAMLESS.

GENTS' VEST CHAINS
DICKENS
PONIES
FOBS
GUARDS



When you buy a Rolled Plated Chain be sure that the swivel is stamped PR. ST. CO. We make all our own wire, consequently know our Chains will give best satisfaction.

CHAINS



FOR
CHAPPED HANDS,
FACE AND LIPS,
TAN, FRECKLES
AND
SUNBURN.



AN ELEGANT
PREPARATION FOR
APPLICATION
AFTER SHAVING.
CURES ALL SKIN
ERUPTIONS.

BEWARE OF WORTHLESS IMITATIONS PUT UP IN STYLE CALCULATED TO DECEIVE. BUY ONLY BOGGS'.

JOHN DOWLING & CO.

TYRONE, ANDERSON COUNTY, KY.

DISTILLERS
OF THE

CELEBRATED

WATERFILL & FRAZIER

OLD FASHION
HAND MADE,
Sour Mash Whiskey.

THE FINEST IN THE WORLD.

JAMES LEVY & BRO., Cincinnati, O., Controllers.

GEORGE CRADOCK & CO.,

WIRE ROPE WORKS AND WIRE DRAWING MILLS

WAKEFIELD, ENGLAND.

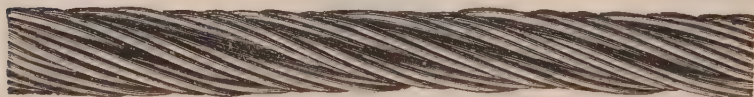
*Manufacturers of every description of Steel
and Iron Wire Ropes*

For MINES, COLLIERIES, TRANSMISSION OF POWER, CRANES,
HOISTS, AGRICULTURAL PURPOSES AND CABLE TRAMWAYS,
In which they have had specially good results.

LANG'S PATENT ROPE,

Which they introduced and established 1879.

WHEN NEW.



WHEN WORN



Registered
Trade Mark.

N. B.—All wire used in the Manufacture of our Ropes is drawn by ourselves from specially prepared WIRE RODS exclusively for our own use, and on no account whatever do we supply the Trade.



Registered
Trade Mark.

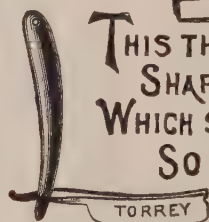


KANSAS STATE BUILDING.

THIS IS THE PRIEST,
ALL SHAVEN
AND SHORN,
WHO MARRIED
THE MAIDEN
ALL FORLORN.



THIS THE RAZOR
SHARP ^{AND} KEEN,
WHICH SHAVED THE PRIEST
SO SMOOTH
AND CLEAN.



TORREY RAZORS

ARE KNOWN AND PRAISED EVERYWHERE.

Every Razor sold under a guarantee to give satisfaction. Ask your dealer for the TORREY, or send direct to us for our Illustrated Catalogue.

J. R. TORREY RAZOR CO.
WORCESTER, MASS.

See Exhibit, Manufacturers and Liberal Arts Building, North East Quarter, Ground Floor, Section F, Block 4, No. 92.

THE * * *

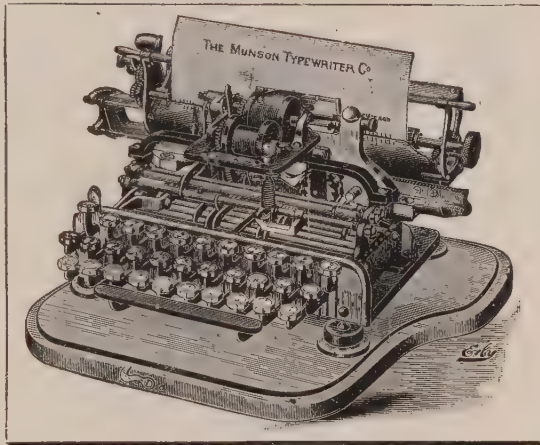
MUNSON TYPEWRITERS

Are the only Machines having

All Steel Interchangeable Type Wheels

WRITING ANY LANGUAGE.

Are LIGHT, COMPACT and DURABLE.



UNEXCELLED IN SPEED AND EASE OF OPERATION,

Having Universal Keyboard, and are

Strictly First-Class, High Grade, Standard Machines

Equally desirable in the home, the study, or the business office.

CALL ON OR ADDRESS

THE MUNSON TYPEWRITER CO.

162 LA SALLE STREET, CHICAGO, ILL., U. S. A.

See our Exhibit in Section F, "Manufactures Building."

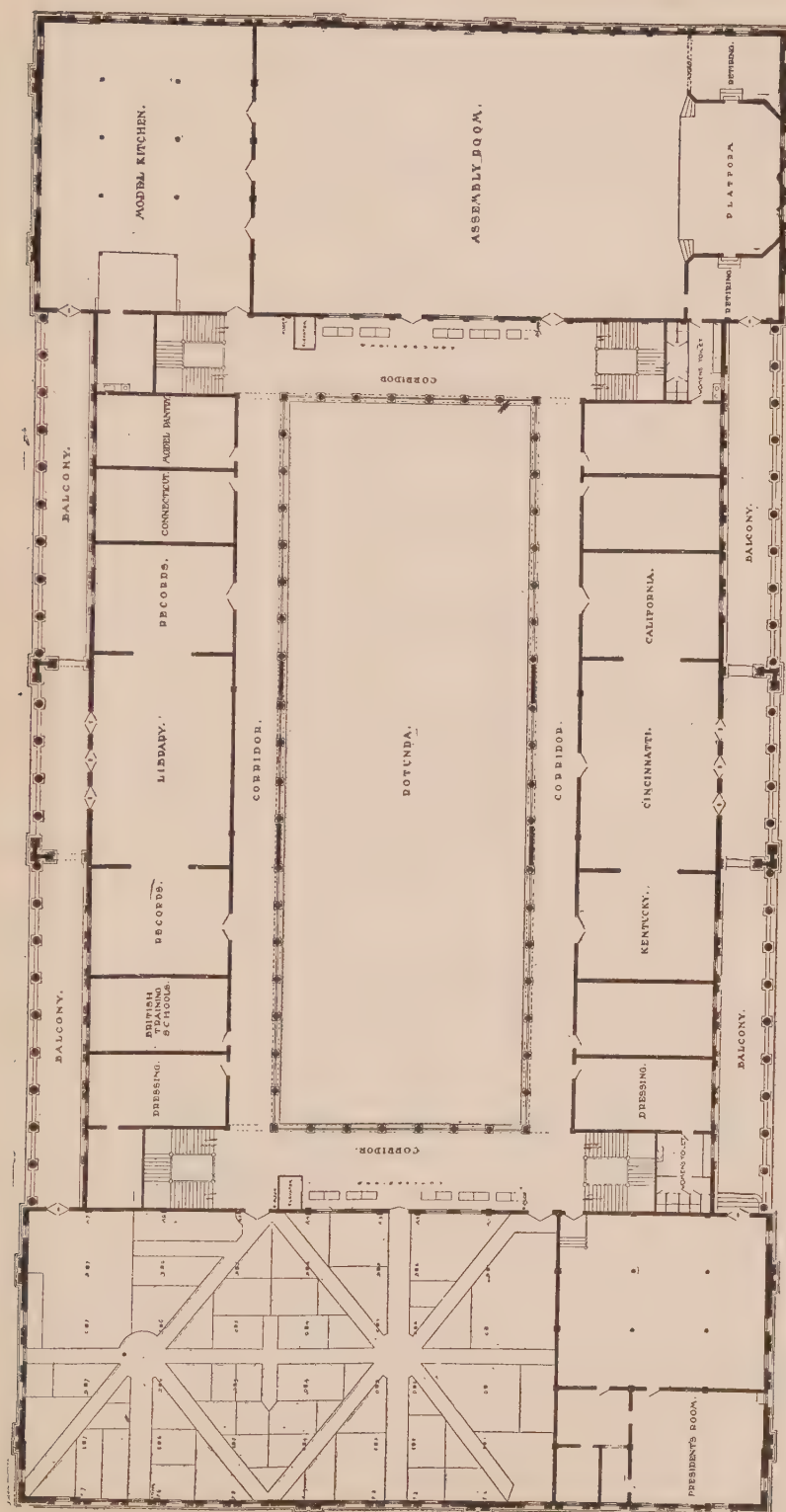


Woman's Building -

(Copyright 1897 by J. L. Smith & Co. Chicago)

KEY TO INSTALLATION.

The exhibits in the Woman's Building occupy a ground floor and gallery. Each foreign country, the collective exhibits of the United States, and the respective departments are installed by sections, as indicated by the plans.



PLAN OF SECOND FLOOR.

COPYRIGHTED 1893,
BY THE
WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO.

...WOMAN'S BUILDING...
...WORLD'S COLUMBIAN EXPOSITION...

CLASSIFICATION.

WOMAN'S BUILDING.

DEPARTMENT A.

AGRICULTURE, FOOD AND ITS ACCESSORIES, FORESTRY AND FOREST PRODUCTS, MACHINERY AND APPLIANCES.

GROUP 2.

BREAD, BISCUITS, PASTES, STARCH, GLUTEN, ETC.

Class 12. Bread and its manufacture, baking powder, yeast and its preparations.

GROUP 7.

THE DAIRY AND DAIRY PRODUCTS.

Class 44. Dairy fittings and appliances—churn for hand and power, butter workers, can and pails, cheese presses, vats and apparatus.

GROUP 8.

TEA, COFFEE, SPICES, HOPS, AND AROMATIC AND VEGETABLE SUBSTANCES.

Class 45. Tea, coffee, cocoa, chocolate and substitutes.

GROUP 9.

ANIMAL AND VEGETABLE FIBRES.

Class 53. Cotton on the stalk—its several varieties; long and short staples, shown by living examples, by engravings, photographs, etc.

Class 59. Hemp, flax, jute, ramie, and other vegetable fibres not enumerated, in primitive forms and in all stages for spinning.

Class 61. Silk worms, silk in the cocoons, apparatus and appliances used in silk culture.

GROUP 18.

FATS, OILS, SOAPS, CANDLES, ETC.

Class 97. Candles, etc.

DEPARTMENT B.

HORTICULTURE, VITICULTURE, POMOLOGY, FLORICULTURE, ETC.

GROUP 21.

POMOLOGY, MANUFACTURED PRODUCTS—METHODS AND APPLIANCES.

Class 139. Dried and evaporated apples, peaches, pears and other fruits. Prunes, figs, dates, etc., in glass or boxes.

Class 140. Fruits in glass or cans, preserved in syrup or alcohol.

Class 141. Jellies, jams, marmalades.

Class 143. Cider, perry, vinegar and expressed juices of berries.

GROUP 22.

FLORICULTURE.

Class 160. Ferns.

Class 164. Native wild plants and flowers.

Class 165. Ornamental grasses and reeds.

Class 167. Cut flowers. Floral designs, pressed flowers, leaves, sea-weeds and bouquets

Class 169. Receptacles for plants, flower pots, plant boxes, fern cases, tubs, jardinières.

Class 171. Miscellaneous.

GROUP 23.

CULINARY VEGETABLES.

Class 176. Vegetables dried or in cans or glass.

Class 177. Pickles, champignons, truffles, chutney, mustard, etc.

DEPARTMENT C.

LIVE STOCK—DOMESTIC AND WILD ANIMALS.

GROUP 34.

POULTRY AND BIRDS.

Class 229. Pheasants and other ornamental birds.

Class 230. Birds of all countries, alive and as stuffed specimens. Taxidermy methods and appliances.

GROUP 36.

WILD ANIMALS.

Class 236. Animals of all countries, alive and as stuffed specimens.

DEPARTMENT D.

FISH, FISHERIES, FISH PRODUCTS AND APPARATUS OF FISHING.

GROUP 37.

FISH AND OTHER FORMS OF AQUATIC LIFE.

Class 240. Algæ, genera and species, with localities.

GROUP 38.

SEA FISHING AND ANGLING.

Class 257. Nets and seines, rakes and dredges, and materials used in their manufacture.

DEPARTMENT E.

MINES, MINING AND METALLURGY.

GROUP 42.

MINERALS, ORES, NATIVE METALS, GEMS AND CRYSTALS—GEOLOGICAL SPECIMENS.

Class 290. Collections of minerals systematically arranged.

Class 291. Collections of ores and the associated minerals. Diamonds and gems, rough, uncut and unmounted. Crystallography.
Specimens illustrating the formations of the earth, systematically arranged.

GROUP 44.

BUILDING STONES, MARBLES, ORNAMENTAL STONES AND QUARRY PRODUCTS.

Class 296. Building stones, granites, slates, etc., rough hewn, sawed or polished—for buildings, bridges, walls, or other constructions, or for interior decoration, or for furniture.

Marble, white, black or colored—stalagmitic marbles, onyx, brecciated marbles, silicified wood, agates, jaspers, porphyries, etc., used in building, decoration, statuary, monuments, vases or furniture.

GROUP 45.

GRINDING, ABRADING AND POLISHING SUBSTANCES.

Class 297. Grindstones, hones, whetstones, grinding and polishing materials, sand, quartz, garnet, crude topaz, diamond, corundum, emery in the rock and pulverized, and in assorted sizes and grades.

GROUP 47.

LIMESTONE, CEMENTS AND ARTIFICIAL STONE.

Class 309. Lime, cement and hydraulic cement, raw and burned, accompanied by specimens of the crude rock or material used; also artificial stone, concrete, beton.

Specimens of lime mortar and mixtures, with illustrations of the processes of mixing, etc. Hydraulic and other cements.

GROUP 67.

HISTORY AND LITERATURE OF MINING AND METALLURGY.

Class 412. Mine engineering—surface and underground surveying and plotting, projection of underground work, location of shafts, tunnels, etc.; surveys for aqueducts and for drainage.

Boring and drilling rocks, shafts and tunnels, etc.; surveys for aqueducts and for ascertaining the nature and extent of mineral deposits.

Construction—sinking and lining shafts by various methods, driving and timbering tunnels and the general operations of opening, stopping and breaking down ore; timbering, lagging and masonry.

Hoisting and delivering at the surface, rock, ore or miners; pumping and draining by engines, buckets or by adits.

Ventilating and lighting.

DEPARTMENT F.**MACHINERY.****GROUP 72.****MACHINERY FOR THE MANUFACTURE OF TEXTILE FABRICS AND CLOTHING.**

Class 436. Machines for the manufacture of woolen goods.

GROUP 77.**MISCELLANEOUS HAND-TOOLS, MACHINES AND APPARATUS USED IN VARIOUS ARTS.**

Class 484. Machines for ironing, drying, scouring and laundry work generally.

GROUP 78.**MACHINES FOR WORKING STONE, CLAY AND OTHER MINERALS.**

(See also Department E.)

Class 492. Brick, pottery and tile machines. Machines for making artificial stone.

DEPARTMENT G.**TRANSPORTATION—RAILWAYS, VESSELS, VEHICLES.****GROUP 80.****RAILWAYS, RAILWAY PLANT AND EQUIPMENT.**

Class 500. Railway equipment—locomotives for passenger and freight service. Locomotive appliances—head lights, bells, whistles, brake valves and apparatus, etc. Plans, drawings and photographs of locomotives and locomotive shops. Passenger cars—mail, baggage and express coaches, drawing-room, parlor, dining, officers' and private cars, etc. Passenger car furnishings and appliances. Freight cars—box, caboose, stock, horse, milk, refrigerator and other varieties. Working cars—sweeping, ditching, wrecking, etc.; snow plows, hand, inspection, push and velocipede cars, baggage barrows and trucks. Freight car appliances of all descriptions. Plans, drawings and photographs of cars and car works.

GROUP 81.**STREET CAR AND OTHER SHORT LINE SYSTEMS.**

Class 506. Cars for street railways or tramways operated by horse-power or other means of propulsion not specified. Construction. Equipment and supplies. Methods of operation.

GROUP 83.**VEHICLES AND METHODS OF TRANSPORTATION ON COMMON ROADS.**

Class 523. Harness, saddlery, robes, whips and accessories of the stable.

GROUP 84.**AERIAL, PNEUMATIC AND OTHER FORMS OF TRANSPORTATION.**

Class 527. Passenger elevators and lifts.

GROUP 85.**VESSELS, BOATS—MARINE, LAKE AND RIVER TRANSPORTATION.**

Class 534. Protection of life and property and communication at sea. Harbors; light-houses; buoys and similar aids to navigation and all pertaining thereto; life-saving service, boats, rafts, belts, etc.; precautions against fire aboard ship and devices for extinguishing it; storm and coast signals; marine signals. Models, plans, samples, etc.

DEPARTMENT H.**MANUFACTURES.****GROUP 87.****CHEMICAL AND PHARMACEUTICAL PRODUCTS—DRUGGISTS' SUPPLIES.**

Class 547. Drugs and pharmaceutical preparations and compounds.

Class 549. Flavoring extracts, essences, essential oils, toilet soap, perfumery, pomades, cosmetics, etc.

GROUP 89.**TYPEWRITERS, PAPER, BLANK BOOKS, STATIONERY.**

Class 563. Wall papers, oil papers.

Class 564. Typewriters, stationery and stationers' goods; ink-stands, weights, rules, pens, pencils, filing-cases, letter presses, etc.

GROUP 90.**FURNITURE OF INTERIORS, UPHOLSTERY AND ARTISTIC DECORATION.**

- Class 566. Tables for various purposes—billiard, card, dining, etc.
 Class 567. Suites of furniture for the hall, parlor, drawing-room, library, dining-room and for the bed-chamber.
 Class 568. Upholstery for windows, doors; curtains, portieres, etc.
 Class 572. Artistic furnishing, illustrated by completely furnished apartments, with selections of furniture and various objects of adornment from other groups.

GROUP 91—CERAMICS AND MOSAICS.**FOR CLAYS AND OTHER MATERIALS SEE GROUP 46.**

- Class 576. Earthenware, stone, china and semi-porcelain ware, faience, etc., with soft glazes and with high-fire, feld-spathic glazes and enamels.
 Class 577. Porcelain with white or colored body, painted, incised or pate-sur-pate decoration.
 Class 578. Tiles—plain, encaustic and decorated tiles, bosses, tessaræ, etc., for pavements, mural and mantel decoration, etc.
 Class 579. Mural decoration; reredos and panels; borders for fireplaces and mantels.

GROUP 92.**MARBLE, STONE AND METAL MONUMENTS, MAUSOLEUMS, MANTELS, ETC.—CASKETS, COFFINS AND UNDERTAKERS' FURNISHING GOODS.**

- Class 582. Marble and stone fountains, balustrades and miscellaneous ornaments.
 Class 583. Marble, stone and metal mantels and ornaments.

GROUP 93.**ART METAL WORK—ENAMELS, ETC.**

- Class 585. Art metal work; selected examples of iron forgings, bronzes, bas-reliefs, repousse and chiseled work.
 Class 586. Cloisonne enamels.

GROUP 94.**GLASS AND GLASSWARE.**

- Class 592. Cut-glass ware for the table and various purposes. Engraved and etched glass.
 Class 593. Fancy glassware—plain, iridescent, opalescent, colored, enameled, painted beaded, gilded, etc. Millefiori and aventurine glass.
 Class 595. Glass mosaics, beads, spun glass and glass fabrics.

GROUP 95.**STAINED GLASS IN DECORATION.**

- Class 596. Civic and domestic stained glass work, panels, windows, etc.
 Class 597. Ecclesiastical stained glass work.

GROUP 96.**CARVINGS IN VARIOUS MATERIALS.**

- Class 598. Wood carving.
 Class 601. Metal carving and chiseling.

GROUP 97.**GOLD AND SILVER WARE, PLATE, ETC.**

- Class 607. Fancy bonbon and other spoons; miscellaneous fancy articles in silver—snuff-boxes, match-boxes cane-heads, handles, chatelaines, etc.

GROUP 98.**JEWELRY AND ORNAMENTS.**

- Class 612. Gold ornaments for the person, etc.
 Class 613. Diamonds and various colored gems, as rubies, sapphires, emeralds, chrysoberyls, tourmalines, topazes, etc., mounted in various ornaments.
 (For gems in the rough and unmounted in part, see Department E.)
 Class 614. Agates, onyx, jasper, ornaments for the person.

GROUP 100.**SILK AND SILK FABRICS.**

- Class 625. Raw silk as reeled from the cocoon, thrown or twisted silks on the gum.
 Class 629. Figured-silk piece goods, woven or printed. Upholstery silks, etc.
 Class 630. Crapes, velvets, gauzes, cravats, handkerchiefs, hosiery, knit goods, laces, scarfs, ties, veils; all descriptions of cut and made-up silks.
 Class 632. Bindings, braids, cords, galloons, ladies' dress trimmings, upholsterers', tailors', military and miscellaneous trimmings.

GROUP 101.

FABRICS OF JUTE, RAMIE AND OTHER VEGETABLE AND MINERAL FIBRES.

- Class 634. Ramie and other fabrics.
- Class 635. Mats and coarse fabrics of grass, etc.
- Class 637. Woven fabrics of mineral origin—fine wire-cloths, sieve-cloth, wire screen, bolting cloth. (See also Group 117.) Asbestos fibre, spun and woven, with the clothing manufactured from it. Glass thread, floss and fabrics. (See also Class 595.)

GROUP 102.

YARNS AND WOVEN GOODS OF COTTON, LINEN AND OTHER VEGETABLE FIBRES.

- Class 638. Cotton fabrics, etc.
- Class 639. Linen fabrics—linen thread, cloths and drills, plain and mixed; napkins, table-cloths, sheetings, shirtings, etc.; cambrics, handkerchiefs and other manufactures of linen.

GROUP 103.

WOVEN AND FELTED GOODS OF WOOL AND MIXTURES OF WOOL.

- Class 647. Sundries and small wares, webbings and gorings, bindings, beltings, braids galloons, fringes and gimps, cords and tassels, and all elastic fabrics, dress trimmings, embroideries, etc.
- Class 649. Carpets and rugs, ingrains (two-ply and three-ply) and art carpets, tapestry, and body Brussels, tapestry velvet, Wilton or Wilton velvet, Axminster, tapestry Wilton, Moquette, ingrain and Smyrna rugs, other woolen rugs, rag carpets.

GROUP 104.

CLOTHING AND COSTUMES.

- Class 653. Dresses gowns, habits, costumes.
- Class 654. Hats and caps.
- Class 657. Knit goods and hosiery, woven gloves, gloves of leather and skins.
- Class 659. Sewing machines for domestic purposes.

GROUP 105.

FURS AND FUR CLOTHING.

- Class 660. Furs and skins, dressed and tanned. Of the cat tribe, of the wolf tribe, of the weasel tribe, of the bear tribe, of the seal tribe. Fur seals—Alaska; Oregon, South Georgia, Shetland and Siberia, undressed, plucked and dyed. Hair seals, Greenland and Labrador seals, spotted seals, silver seal, harp seal, saddleback. Furs of rodent animals—squirrels, chinchilla, beaver, hares, rabbits and other fur bearing animals. Birds' skins treated as furs. Swans and swans'-down. Skins. Goose and goose-down used as swans'-down. Grebe, eider-down and penguin.
- Class 661. Fur mats and carriage or sleigh robes.
- Class 662. Fur clothing.

GROUP 106.

LACES, EMBROIDERIES, TRIMMINGS, ARTIFICIAL FLOWERS, FANS, ETC.

- Class 664. Laces of linen and cotton, of silk, wool or mohair, made with the needle or the loom; silver and gold lace.
- Class 665. Embroideries, crochet-work, etc.; needle-work.
- Class 666. Artificial flowers for trimming and for decoration of apartments.
- Class 667. Fans.
- Class 668. Trimmings in variety, not otherwise classed. Buttons, hooks and eyes, pins and needles.
- Class 669. Art embroidery and needle-work.
- Class 670. Tapestries, hand-made.

GROUP 107.

HAIR WORK, COIFFURES AND ACCESSORIES OF THE TOILET.

- Class 672. Hair work, as souvenirs and ornaments.

GROUP 108.

TRAVELING EQUIPMENTS—VALISES, TRUNKS, TOILET CASES, FANCY LEATHER WORK, CANES, UMBRELLAS, PARASOLS, ETC.

- Class 679. Trunks of leather, paper, canvas and of wood and metal.
- Class 680. Fancy bags, pouches, purses, card-cases, portfolios, pocket-books, cigar-cases, smoking-pipes, cigar-holders, etc.

GROUP 109.

RUBBER GOODS, CAOUTCHOUC, GUTTA PERCHA, CELLULOID AND ZYLONITE.

- Class 683. Clothing:—Mackintoshes, capes, coats, boots, shoes, hats, etc.

GROUP 110.

TOYS AND FANCY ARTICLES.

- Class 693. Automatic and other toys and games for the amusement and instruction of children.
- Class 695. Miscellaneous fancy articles not especially classed.

GROUP 111.**LEATHER AND MANUFACTURES OF LEATHER.**

- Class 705. Embossed leather for furniture, wall decoration, etc.
 (For trunks see Class 679. For harness, saddlery, etc., see Class 523.)

GROUP 115.**HEATING AND COOKING APPARATUS AND APPLIANCES.**

- Class 726. Steam heaters, hot-water heaters, radiators, etc.
 Class 727. Stoves for heating, cooking stoves, kitchen ranges, grills, roasting jacks, ovens, etc. Stove polish.
 Class 729. Petroleum stoves.
 Class 730. Kitchen utensils and other miscellaneous articles for household purposes.

GROUP 116.**REFRIGERATORS, HOLLOW METAL WARE, TIN WARE, ENAMELED WARE.**

- Class 731. Refrigerators. Soda and aerated water fountains and appliances.

GROUP 117.**WIRE GOODS AND SCREENS, PERFORATED SHEETS, LATTICE WORK, FENCING, ETC.**

(See also Group 65.)

- Class 738. Screens for special purposes.

GROUP 120.**PLUMBING AND SANITARY MATERIALS.**

- Class 753. Bath tubs, bathing appliances and attachments.
 Class 755. Porcelain laundry tubs, basins, cocks, drains and other appliances.

GROUP 121.**MISCELLANEOUS ARTICLES OF MANUFACTURE NOT HERETOFORE CLASSED.****DEPARTMENT K.****FINE ARTS; PAINTING, SCULPTURE, ARCHITECTURE AND DECORATION.****GROUP 139.****SCULPTURE.**

- Class 820. Figures and groups in marble; casts from original works by modern artists; models and monumental decorations.
 Class 821. Bas-reliefs in marble or bronze.
 Class 822. Figures and groups in bronze.

GROUP 140.**PAINTINGS IN OIL.****GROUP 141.****PAINTINGS IN WATER COLORS.****GROUP 142.****PAINTINGS ON IVORY, ON ENAMEL, ON METAL, ON PORCELAIN OR OTHER WARES; FRESKO PAINTING ON WALLS.****GROUP 143.****ENGRAVINGS AND ETCHINGS; PRINTS.****GROUP 144.****CHALK, CHARCOAL, PASTEL, AND OTHER DRAWINGS.****GROUP 146.****EXHIBITS OF PRIVATE COLLECTIONS.****DEPARTMENT L.****LIBERAL ARTS—EDUCATION, LITERATURE, ENGINEERING, PUBLIC WORKS, MUSIC AND THE DRAMA.****GROUP 147.****PHYSICAL DEVELOPMENT, TRAINING AND CONDITION—HYGIENE.**

- Class 825. Athletic training and exercise gymnasiums; apparatus for physical development and of gymnastic exercises and amusement; skating, walking, climbing, ball-playing, wrestling, acrobatic exercises; rowing, hunting, etc. Special apparatus for training in schools, gymnasia; apparatus for exercise, drill, etc.
 Class 826. Alimentation—food supply and its distribution; adulteration of food, markets, preparation of food, cooking and serving, school kitchens and arrangements for school canteens, methods of warming children's meals, etc. Dinner-pails, or receptacles for carrying meals for school children, workmen and others. Restaurants, dining halls, refectories, etc.

- Class 828. Hotels, lodging-houses.
- Class 829. Public baths, lavatories; public and domestic hygiene. Sanitation—sanitary appliances and methods for dwelling-houses, buildings and cities. Direct renewal of air. Heating, ventilating, lighting, in their relation to health. Conduits of water and sewage. Drains and sewers. Sinks, night-soil apparatus, sanitary plumbing, walls, bricks, roofs, flooring, etc. Sanitary house decoration—non-poisonous paints and wall-papers, floor coverings, washables, decorations, etc.
- Apparatus for carrying off, receiving and treating sewage. Slaughter-house refuse, city garbage.
- Apparatus and methods for filtering water and cleansing water-courses.
- Apparatus intended for the prevention of infectious diseases. Methods, materials and instruments for purifying and destroying germs; disinfectors.
- Apparatus and fittings for warming, ventilating and lighting schools; school latrines, closets, etc.
- Special school fittings for storing and drying clothing.
- Precaution in schools for preventing the spread of infectious diseases; school sanatoria, infirmaries, etc.
- Class 831. Asylums and homes—asylums for infants and children; foundling and orphan asylums; children's aid societies. Homes for aged men and women; for the maimed and deformed; for soldiers and sailors.
- Treatment of paupers; alms-houses.
- Treatment of aborigines; Indian reservations and homes.
- Class 832. Hospitals, dispensaries, etc.; plans, models, statistics. Shed hospitals for infectious fevers and epidemic diseases; tent hospitals; hospital ships; furniture and fittings for sick rooms.

GROUP 148.

INSTRUMENTS AND APPARATUS OF MEDICINE SURGERY AND PROSTHESIS.

- Class 837. Surgical instruments, appliances and apparatus, with dressings, anæsthetics, antiseptics; obstetrical instruments, etc.

GROUP 149.

PRIMARY, SECONDARY AND SUPERIOR EDUCATION.

- Class 841. Elementary instruction—infant schools and kindergartens. Descriptions of the methods of instruction, with statistics.
- Class 843. Domestic and industrial training for girls—models and apparatus for the teaching of cookery, housework, washing and ironing, needle-work and embroidery, dress-making, artificial flower-making, painting on silk, crockery, etc. Specimens of school work.
- Class 849. Education of defective classes—schools for the deaf, dumb, blind and feeble-minded; adult schools for the illiterate.
- Class 850. Public schools—descriptions, illustrations, statistics, methods of instruction, etc.
- Class 851. Higher education—academies and high schools. Descriptions and statistics. Colleges and universities. Descriptions, illustrations of the buildings, libraries, museums, collections, courses of study, catalogues, statistics, etc.
- Class 852. Professional schools—theology, law, medicine and surgery, dentistry, pharmacy; mining, engineering, agriculture, mechanic arts; art and design; military, naval, normal, commercial; music.
- Class 853. Government aid to education, National Bureau of Education. Reports and statistics.

GROUP 150.

LITERATURE, BOOKS, LIBRARIES, JOURNALISM.

- Class 854. Books and literature, with special examples of typography, paper and binding. General works—philosophy, religion, sociology, philology, natural sciences, useful arts, fine arts, literature, history and geography; cyclopædias, magazines and newspapers; bindings, specimens of typography.

GROUP 151.

INSTRUMENTS OF PRECISION, EXPERIMENT, RESEARCH AND PHOTOGRAPHY;
PHOTOGRAPHS.

- Class 871. Photographic apparatus and accessories. Photographs.
- Class 875. Electric and magnetic apparatus. (See also Department J.)

GROUP 152.

CIVIL ENGINEERING, PUBLIC WORKS, CONSTRUCTIVE ARCHITECTURE.

- Class 882. Irrigation—irrigating canals and systems.
- Class 889. Constructive architecture—plans of public buildings for special purposes; large and small dwelling houses.

GROUP 153.

GOVERNMENT AND LAW.

- Class 890. Various systems of government illustrated—government departments, legislative, executive and judicial.

GROUP 155.

INSTITUTIONS AND ORGANIZATIONS FOR THE INCREASE AND DIFFUSION OF KNOWLEDGE.

- Class 907. Institutions founded for the increase and diffusion of knowledge, such as the Smithsonian Institution, the Royal Institution, the Institute of France, British Association for the Advancement of Science, and the American Association, etc.; their organization, history and results.
- Class 908. Academies of science and letters—learned and scientific associations, geological and mineralogical societies, etc.; engineering, technical and professional associations; artistic, biological, zoological, medical, astronomical societies and organizations.

GROUP 156.

SOCIAL, INDUSTRIAL AND COOPERATIVE ASSOCIATIONS.

- Class 917. Secret societies.
- Class 918. Miscellaneous organizations for promoting the material and moral well-being of the industrial classes.

GROUP 157.

RELIGIOUS ORGANIZATIONS AND SYSTEMS—STATISTICS AND PUBLICATIONS.

- Class 919. Religious organizations and systems.—Origin, nature, growth, and extent of various religious systems and faiths. Statistical, historical and other illustrations; pictures of buildings; plans and views of interiors.
- Class 921. Missionary societies, missions and missionary work; maps, reports, statistics.

GROUP 158.

MUSIC AND MUSICAL INSTRUMENTS—THE THEATRE.

- Class 926. History and theory of music—music of primitive people. Crude and curious instruments. Combinations of instruments, bands and orchestras. Music books and scores. Musical notation.
- Class 930. History and literature of music. Portraits of great musicians.
- Class 930. Stringed instruments with key-board.—The piano-forte, square, upright and grand.
- Actions and parts of a piano.
- The predecessors of the piano.—Clavicytherium, clavicymbal, clavichord, manichord, virginal, spinet, harpsichord, and hammer harpsichord.
- Instruments and methods of manufacture.
- Street pianos.

DEPARTMENT M.

ETHNOLOGY, ARCHÆOLOGY, PROGRESS OF LABOR AND INVENTION.

GROUP 172.

WOMAN'S WORK.

GROUP 174.

THE NORTH AMERICAN INDIAN.

- Class 959. Villages or families of various tribes engaged in their native occupations.
- Class 960. Specimens of their special work and industries. Collections of Indian "trinkets" or curiosities.

GROUP 175.

- PORTRAITS, BUSTS AND STATUES OF GREAT INVENTORS, AND OTHERS WHO HAVE CONTRIBUTED LARGELY TO THE PROGRESS OF CIVILIZATION AND THE WELL-BEING OF MAN.

GROUP 176.

ISOLATED AND COLLECTIVE EXHIBITS.

- Class 968. The Latin-American Bureau.

DEPARTMENT N.

FORESTRY, FOREST PRODUCTS.

- Class 99. Logs and sections of trees; samples of wood and timber of all kinds generally used in construction or manufactures, either in the rough or hewed, sawed or split, including square timber, joists, scantling, plank and boards of all sizes and kinds commonly sold for building purposes. Also ship timber, as used in ship-building, or for masts and spars; piles, timber for fencing, for posts, for paving or for timbering mines. Miscellaneous collections of wood.
- Class 100. Worked timber or lumber, in form of clapboards, shingles, sheathing or flooring, casings, moldings, stair rails or parts of furniture.
- Class 111. Basket industry—willow ware, etc.
- Class 113. Forest botany—distribution of forests, of genera, of species (maps).
Wood sections and herbarian specimens of the economically important timber trees.
Seed collections, not herbarium, etc.
Illustrations of forest growth, typical trees, botanical features.
Anatomy and structure of woods. (Veneer sections and photo-micrographs.)
Peculiarities of forest growth—cypress-knees, burls.
Diseases of forest trees and timber. Injurious insects.

Photographic Apparatus

Materials and Supplies

INCLUDING EVERYTHING REQUIRED FOR

Professional, Amateur or Scientific Photography.

DETECTIVE AND VIEW CAMERAS

. . In Great Variety . .

Sole Agents for the Celebrated

DALLMEYER LENSES.

Trade Agents for

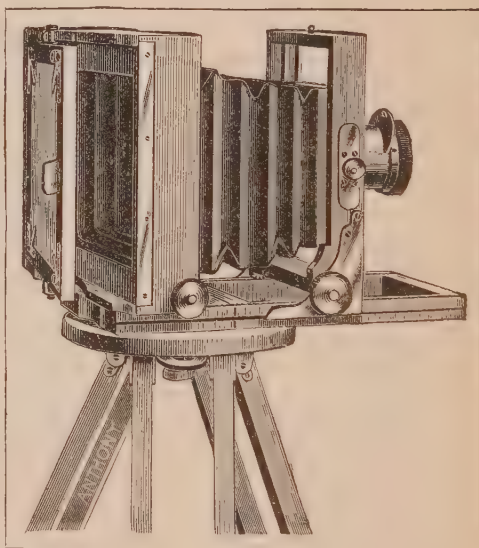
American "ARISTO" Paper.

Sole Importers of

N. P. A. ALBUMEN PAPER.

The Best Makes of

Gallery Boxes, Camera Stands and
Accessories, Tripods, Shutters,
Dark Room Lamps, Flash
Lamps, etc.



ESTABLISHED MORE THAN FIFTY YEARS

E. & H. T. ANTHONY & Co.

591 Broadway, NEW YORK

SEND FOR CATALOGUE

Free Use of Dark Room on Main
Floor of Store

Exhibit located in SECTION E, Gallery Floor. Building for Manufactures and Liberal Arts.

WOMAN'S BUILDING.

UNITED STATES.

DEPT. A.—AGRICULTURE.**GROUP 2.****Bread, Biscuits Pastes, Starch, Gluten, etc.**

1. Saunders, Mrs. Carrie W., Saginaw, Mich. Baking powder. 12
2. Thompson, Mrs. D. S., Chicago. Baking powder. 12

GROUP 7.**The Dairy and Dairy Products.**

3. Romney, Mrs. C. W., Chicago. Milk cooler and refrigerator. 44

GROUP 8.**Tea, Coffee, Spices, Hops and Aromatic and Vegetable Substances.**

4. Massiah, Fannie, Cairo, Ill. Chocolate and cocoa. 45

GROUP 9.**Animal and Vegetable Fibres.**

5. Hammond, Julia B., Beech Island, S. C. Bale of cotton. 53
6. McKee, Anita H., Jackson, Miss. Cotton raised by women. 53
7. Stone, Mrs. John M., Jackson, Miss. Cotton. 53

DEPT. B.—HORTICULTURE.**GROUP 21.****Pomology, Manufactured Products, Methods and Appliances.**

8. Hatch, Miss L. H., Fresno, Cal. Raisins. 139
9. Moore, Mrs. Lawrence, Mobile, Ala. Fig preserves. 140
10. Rowland, Mrs. Sallie E., St. Louis.
 a Preserves. 140
 b Jams and apple butter. 141
11. Sutherland, Mrs. Wm., White Sulphur Springs.
 a Preserves. 140
 b Jellies, etc. 141
12. Thompson, Mrs. C. V., Chicago. Home made fruit wines. 143

GROUP 22.**Floriculture.**

13. Coleman, Laura P., Denver, Col. Botanical specimens. 167

14. Columbian Exhibition Ass'n for Lewis and Clark counties, Mont. Pressed flowers. 167

15. Crowley, Mrs. A. M., Evanston, Ill. Prepared botanical specimens. 167

16. Haynes, Kate E., Coldwater, Mich. Jardinere. 169

17. Howey, Laura E., Helena, Mont. Montana Flora. 164

18. March, Mrs. Jeannette B., Baltimore, Md. Portable window garden. 169

19. Moore, Jennie H., Butte, Mont. Floral pillar. 167

20. Oregon Women, Portland, Ore. Oregon ferns and mosses. 160

21. Stillwell, May I., Deadwood, S. Dak. Pressed flowers. 167

22. Strong, Harriet W. R., Whittier, Cal. Pampas plumes. 165

23. Ware, Emma J., Philipsburg, Mont.
 a Montana wild flowers, mounted. 164
 b Books of paintings of flowers, etc. 171

24. Webb, Mrs. H. Walter, New York. Collection of mounted ferns. 160

25. Zoncada, Mrs. E. A., New York. Skelton leaves and flowers.

GROUP 23.**Culinary Vegetables.**

26. Rowland, Mrs. Sallie E., St. Louis. Catsup. 177

27. Straus, Mrs. Elise, St. Louis, Mo. Sweet potato flour and evaporated vegetables. 176

DEPT. C.—LIVE STOCK.**GROUP 34.****Poultry and Birds.**

28. Tinsley, Mrs. L. F., Minneapolis, Minn. Group of prairie chickens. 230

29. Williams, Mrs. Violet S., Coralville, Iowa. Case of mounted birds. 230

GROUP 36.**Wild Animals.**

30. Lewis and Clarke Counties Columbian Ass'n, Helena, Mont. Taxidermy. 236

31. Williams, Mrs. Violet S., Coralville, Iowa. Case of mounted animals 236

WOMAN'S BUILDING.

DEPT. D.—FISH AND FISH-ERIES.**GROUP 37.**

Fish and Other Forms of Aquatic Life.

32. Howe, Minnie, Des Moines, Iowa. 240
Collection of mounted slime moulds.
33. Jones, Mrs. Ellen H., Estrella, Cal. 240
Sea mosses.

GROUP 38.

Sea Fishing and Angling.

34. Fisherwomen of New Jersey. Col- 257
lection of fish nets.

DEPT. E.—MINES AND MINING.**GROUP 42.**

Minerals, Ores, Native Metals, Gems and Crystals. Geological Specimens.

35. Davidson, Mrs. A. D., Oberlin, Ohio. 291
Fossils, minerals and geological speci-
mens.
36. Women of the Black Hills, Dead- 290
wood, S. Dak. Collection of minerals.

GROUP 44.

Building Stones, Marbles, Ornamental Stones and Quarry Products.

37. Ladies of La Plata County, Denver, 296
Col. Bust and pedestal of pink sand-
stone from La Plata County, Col.

GROUP 45.

Grinding, Abrading and Polishing Substances.

38. Myers, Mrs. Laura H., Chicago. 297
Silver fish.

GROUP 47.

Limestone, Cements and Artificial Stone.

39. Brown, Mrs. Emma O., Syracuse, 309
N. Y. Cement.

GROUP 67.

History and Literature of Mining and Metallurgy.

40. Fish, Rachel J., Denver, Col. Min- 412
ing claims surveys made by women.

DEPT. F.—MACHINERY.**GROUP 72.**

Machinery for the Manufacture of Textile Fabrics and Clothing.

41. Bachmann, Sophie E., Chicago. 436
Portable weaving machine.
42. Shepard, Mrs. Jennie A., Portland, 436
Ore. Yarn reel.

GROUP 77.

Miscellaneous Hand Tools, Machines and Apparatus Used in Various Arts.

43. Colvin, Margaret P., Battle Creek, 484
Mich. Washing machine.
44. Day, Mary J., Newburg, N. Y. 484
Waist and sleeve pressing board.

45. Goodwin, Ella, Chicago. Washing 484
machine.
46. Ring, Miss F. L., Westfield, Mass. 484
Steam pressing and ironing board

GROUP 78.

Machines for Working Stone, Clay and Other Materials.

47. Fitch, Mrs. Nancy M., Springfield, 492
Ohio. Kilns for firing decorated china.
48. Hall, Fanny E., New York. Gas 492
kiln for firing china and glass.

DEPT. G.—TRANSPORTA-TION.**GROUP 80.**

Railways, Railway Plant and Equipment.

49. Armstrong, Geneva, Chicago. Model 500
of a stock car.
50. Kelley, Miss Caroline B., Wilming- 500
ton, Del. Section of decorated ceiling for
railway car.
51. Romney, Mrs. C. W., Chicago. Foot 500
stone for compartment cars.

GROUP 81.

Street Car and Other Short Line Systems.

52. Bailey, Anna E., Chicago. Warming 506
device for protecting street car drivers.

GROUP 83.

Vehicles and Methods of Transportation on Common Roads.

53. Simmons, Mrs. Adelaide L., Kenosha. 523
Wis. Saddles.

GROUP 84.

Aerial, Pneumatic and Other Forms of Transportation.

54. Tracy, Mrs. Harriet R., New York. 527
Elevator. [In service.]

GROUP 85.

Vessels, Boats—Marine, Lake and River Transportation.

55. Blue Anchor Society, New York. 534
Relief work done by women for wrecked
sailors.
56. Coston, Martha J., New Brighton, 534
N. Y. Night signals.

DEPT. H.—MANUFACTURES.**GROUP 87.**

Chemical and Pharmaceutical Products—Druggists' Supplies.

57. Coit, Frances H., Chicago. Fruit 547
laxative.
58. Simmons, Mrs. Adelaide L., Kenosha, 549
Wis. Toilet articles.

GROUP 89.

Typewriters, Paper, Blank Books, Stationery.

59. National Ass'n of Women Stenogra- 564
phers, Chicago. Typewriters.

UNITED STATES.

GROUP 90.

Furniture of Interiors, Upholstery and Artistic Decoration.

60. Barr, Mary L., Indianapolis, Ind. Folding bed. 567
61. Carter, Miss, Louisville, Ky. Decorative treatment of Kentucky room in Woman's Building. 572
62. Frindlander, Sophia B., Chicago. Boudoir of furniture in pyrographic painting. 567
63. Galvan, Mrs. Sarah, M., New York. Painted screen. 572
64. Howell, Mrs. Elizabeth E., Marysville, Mo. Self-waiting table. 566
65. Ladies' Committee of Mobile, Ala. Artistic furnishing of platform in assembly room. 572
66. Ladies of Santa Fe County, Santa Fe, N. M. Table inlaid with gold and silver engraved plates, jewels, ores, etc. 566
67. McCandless, Mary E., Pittsburg, Pa. Screen. 572
68. May, Mrs. A. A., Boston. Combination cabinets. 567
69. Moore, Mrs. Lou G., Saginaw, Mich. Rustic cabinet. 567
70. Neal, Miss S. C., New York. Model of baby's crib. 567
71. Pitman, Agnes, Cincinnati. Decorative treatment of managers' parlor in Woman's Building. 572
72. Seidenburg, Anna, Cincinnati. Rustic parlor furniture. 567
73. Sheldon, Miss, Hartford, Conn. Decorative treatment of Connecticut room in Woman's Building. 572
74. Simmons, Mrs. Adelaide L., Kenosha, Wis. Folding beds. 567
75. Turkish Compassionate Fund, New York. Curtains, portieres, etc. 568
76. Waite, Mrs., San Francisco. Decorative treatment of California room in Woman's Building. 572
77. West, Mrs. M., Chicago. Satin portiere. 568
78. Wheeler, Candace, New York. Decorative treatment of library in Woman's Building. 572

GROUP 91.

Ceramics and Mosaics.

79. Barnes, Clara M., New Haven, Conn. Punch bowl. 576
80. Beaman, Miss, Wilmington, Del. China plate. 576
81. Brock, Mrs., Lincoln, Neb. Decorated vase. 577
82. Butterfield, Mellona, Omaha, Neb. Painted china. 577
83. Butts, Kate C., Grand Rapids, Mich. Decorated chocolate set. 577
84. Bye, Rosalie P., Wilmington, Del. Plates and toilet set. 576
85. Christian Woman's Exchange, New Orleans. Decorated china. 577
86. Cincinnati Pottery Club, Cincinnati. Overglaze decoration on porcelain. 577
87. Clarke, Eva L., South Bend, Ind. Hand painted china. 577
88. Cole, Lillie E., Chicago. Decorated porcelain ware. 577

89. Columbian Ceramic Society, Chicago. Ceramic work. 576
90. Crockett, Mrs. I. B., Chicago. Decorated china. 577
91. Dibble, Mabel C., Chicago. Decorated china. 577
92. Dodge, Anna S., Milwaukee, Wis. Decorated china. 577
93. Dutcher, Mrs. Anna M. H., St. Louis. Painted porcelain vase. 577
94. English, H. St. B., Los Angeles, Cal. Decorated china jardiniere. 577
95. Farnum, Mrs. H. C., Grosse Isle, Mich. Ceramic portrait of T. W. Palmer, President World's Columbian Commission. 577
96. Flint, Henrietta O., Highland Park, Ill. Decorated tile. 578
97. Frisbie, Mrs. M. A., Hartford, Conn. Jardiniere, plates, etc. 576
98. Hall, Fanny E., New York. Decorated china ware. 577
99. Healey, Mary and Emily, Washington, D. C. Gold covered porcelain. 577
100. Ireland, Mrs. Emma, Warsaw, Ind. Decorated tea set. 577
101. Julian, Nellie I., Indianapolis, Ind. Decorated china. 577
102. Junor, Miss Kate, Boston. Porcelain panels, plaques, trays, etc. 576
103. Kline, Esther, Wikes-Barre, Pa. Decorated jardiniere and plaque. 577
104. Lannoy, Mr. F. de, Chester, Pa. China plates. 576
105. Lewis and Clark Columbian Exhibition Association. Helena, Mont. China painting. 577
106. Lord, Nellie M., Chicago. Decorated china. 577
107. Marple, Miss Mary, Bridgeport, Pa. Decorated china plaque. 577
108. Miller, C. J., Peoria, Ill. China tray. 576
109. Morey, Mrs. Chas. F., Hastings, Neb. Jardiniere and vase. 576
110. O'Shaunessey, Miss Lucy, Cincinnati. Sevres and wedgewood cups and saucers. 576
111. Peck, Grace H., Chicago. Decorated porcelain chocolate set. 577
112. Phillips, Mary A., Helena, Mont. Decorated china. 577
113. Pickett, Mrs. Laura M., St. Louis. Porcelain painting. 577
114. Sears, Miss, Trenton, N. J. Intaglio vase. 577
115. Sherratt, Mrs. J., Washington, D. C. Decorated china. 577
116. Smith, Mary M., Washington, Conn. Decorated ice cream platter. 577
117. Thompson, Augustine, St. Louis. Painted china fancy articles. 577
118. Thompson, Zerlina C., St. Louis. Painted porcelain fancy articles; jardiniere. 577
119. Van Nechten, Miss Fannie, Cedar Rapids, Iowa. Decorated china fish set. 577
120. Walker, Miss Mary E., Flushing, N. Y.
 - a China fruit service. 576
 - b Porcelain tiles. 578

WOMAN'S BUILDING.

121. White, Mrs. M. E., Butte, Mont. Decorated china. 577
 122. Whitney, Mamie P., Pottsville, Pa. Chocolate pot, cups and saucers. 576
 123. Wickes, Mrs. Ellen P., Englewood, N. J. China plaque. 576
 124. Winterbotham, Ruth M., Eau Claire, Wis. Modeled tile. 578

GROUP 92.

Marble, Stone and Metal Monuments, Mausoleums, Mantels, Etc. Caskets, Coffins and Undertakers' Furnishing Goods.

125. Ladies of Selma, Ala. Carved stone chair. 582
 126. McClung, Mrs. J., Knoxville, Tenn. Marble wainscoting for western vestibule of Woman's Building. 583
 127. Whitney, Miss Anne, Boston. Marble fountain. 582
 128. Women of Westerly, R. I. Granite vase. 583

GROUP 93.

Art Metal Work—Enamels, Etc.

129. Hardy, Mrs. A., Beatrice, Neb. Etched brass tablet. 585
 130. Ladies' Flag Committee, Detroit, Mich. Copper statue of girl. 585
 131. White, Mrs. M. E., Butte, Mont. Burnished copper shield. 585
 132. Woman's Relief Corps, Sabetha, Kan. Patriotic badges. 585
 133. Women of Michigan. Copper statue of girl. 585

GROUP 94.

Glass and Glassware.

134. Hall, Fanny E., New York. Decorated glassware. 593

GROUP 96.

Carvings in Various Materials.

135. Carper, Minnette S., St. Louis. Piano bench decorated in pyrography. 598
 136. Chicago Athenæum Wood Carving School, Chicago. Carved cabinet, chairs, chest, screen, etc. 598
 137. Clarke, Annie M., St. Louis. Carved oak writing desk. 598
 138. Crowley, Mrs. Belle C., Council Grove, Kas. Carved box. 598
 139. Daniel, Miss Martha, Jackson, Miss. Carved walnut easel and portfolio. 598
 140. David, Miss Martha, Jackson, Miss. Carved wood candelabra. 598
 141. Field, Mrs. Belle D., Jackson, Miss. Hunter's cabinet. 598
 142. Gardner, M. Louise, Chicago. Demi-relief on polished wood. 598
 143. Hasenwinkle, Miss Madelaine, St. Paul, Minn. Carved white maple table. 598
 144. Henermann, Magda W., Chicago. Pyrographic work. 598
 145. King, Mrs. P. R., Chicago. Carved jewel case. 598
 146. Korvin-Pogosky, A., New York. Burnt wood engraving, panels and furniture. 598

147. Kuntze, Miss F. B., Trenton, N. J. Etched silver tray. 601
 148. Langworthy, Mrs. E. C., Seward, Neb. Carved oak cabinet. 598
 149. Lipscomb, Miss Lucie, Denver, Col. Carved chair and table. 598
 150. Love, Jeannette C., Muncie, Ind. Carved cabinet. 598
 151. Mauran, Julia L., Providence, R. I. Carved oak chest. 598
 152. Nordstrom, Mrs. Albertine, Wausau, Wis. Carved hat-rack, frame, etc. 598
 153. Palen, Miss Jeannette, South Orange, N. J. Carved oak cabinet. 598
 154. Schmidt, Mrs. H. D., York, Pa. Statue of a dragon, carved at York, Pa., which surmounted the State House during the sessions of the Continental Congress in that town in 1777-8. 598
 155. Scudder, Janet, Chicago. Carved mantel. 598
 156. Titus, Amanda C., Chicago. Combined cabinet and book-case, carved. 598
 157. Van Vechten, Emma, Cedar Rapids, Iowa. Carved oak chest. 598
 158. Wetmoreland County Auxiliary Committee, Greensburg, Pa. Carved cabinet. 598
 159. Woolnough, A. E. I., Meekum's River, Va. Burnt wood work. 598
 160. Workman, Miss Annie, Washington, Pa. Carved frame with photographs. 598

GROUP 97.

Gold and Silverware, Plate, Etc.

161. Albright, Mrs. Frances L., Albuquerque, N. M. Filigree tree with onyx base. 607
 162. Logan, Mrs. S. I., Louisville, Ky. Souvenir spoons. 607
 163. Palmer, Miss E. W., Stonington, Ky. Souvenir spoons. 607

GROUP 98.

Jewelry and Ornaments.

164. Brown Amber Mfg Co., Chicago. Amber ornaments. 614
 165. Posey, Sara E., Whitewater, Wis. Wisconsin pearls. 613

GROUP 100.

Silk and Silk Fabrics.

166. Associated Artists, New York. *a* Silk brocades. 629
b Sea island plushes; shadow silks. 630
 167. Barron-Buck, Kate D., Salt Lake City, Utah. Silk map of United States. 630
 168. Greiner, H. C., Somerset, Ohio. Silk flag made by the mother of General Sheridan at the age of 80 years. 632

GROUP 101.

Fabrics of Jute, Ramie and Other Vegetable and Mineral Fibres.

169. Associated Artists, New York. Weavings in gold and silk, and silver and silk. 637

UNITED STATES.

GROUP 102.

Yarns and Woven Goods of Cotton, Linen and Other Vegetable Fibres.

170. Reed, Edith, Eau Claire, Wis. Net for kitchen decoration. 630

GROUP 103.

Woven and Felted Goods of Wool and Mixtures of Wool.

171. Betts, Ella H., New York. Absorbing dress shield. 647
 172. Guidotti, Mrs. Claudia, Chicago. Infant stomach protector and diaper-holder. 647
 173. Kennedy, Lizzie, Chicago. Rug. 649
 174. Schack, Mrs. Sarah J., Chicago. Abdominal and hose supporter. 647

GROUP 104.

Clothing and Costumes.

175. Holmes, Mrs. Emma, Minneapolis, Minn. Opera cloak. 653
 176. Kellogg, Mrs. Martha E., Battle Creek, Mich. Life-size wax figures representing styles of dress since A. D., 1400. 653
 177. Kerr, Mrs. Thomas, Bridgeport, Conn. Infant's knitted cap. 657
 178. Knitting Mills of New York State, Women of the. Collective exhibit of underwear. 657
 179. McIlwaine, Miss K. C., Mountain Lake Pass, Md. Infant's long dress. 653
 180. Tracy, Mrs. Harriet R., New York. Sewing machines. 659
 181. Turner, Mrs. L. E., North Fairfield, Ohio. Knit goods. 657

GROUP 105.

Furs and Fur Clothing.

182. Avery, Mary E., Alton, N. H. Feather cloak and cape. 662
 183. Davidson, Sophie J., Bismark, N. Dak.
 a Buffalo calf skins tanned by Indian women. 660
 b Buffalo robe tanned by Indian women. 661
 184. Fuller, Mrs. Viola, Mitchell, S. Dak. Feather opera cloak. 662

GROUP 106.

Laces, Embroideries, Trimmings, Artificial Flowers, Fans, Etc.

185. Adams, Mrs. A. P. P., Shelbyville, Ind. Table mat. 669
 186. Addington, Mrs., Mineral Point, Wis. Honiton lace and cushion. 664
 187. Albright, Mrs. Frances L., Albuquerque, N. M. Embroidery and drawn work. 665
 188. Alexander, Mrs. J. F., La Fayette, Ind. Table cloth. 669
 189. Allmond, Miss Phebe, Wilmington, Del. Centre piece. 665
 190. Associated Artists, New York.
 a Embroidery.
 Color study in textiles. Subject, Fighting Dragoons.

Clematis portiere.
 Azalia portiere.
 Rose hanging.
 Chrysanthemums on gold cloth.
 Pomegranate embroidery.
 Needle woven and embroidered wall hanging. 669

b Needlewoven tapestry.
 Reproduction of Raphael's Miraculous draught of fishes.
 Decorative panel. Peacocks.
 Figure. Algerian boot-black.
 Figure. Penelope. 670

191. Austin, Mrs. Wm., Ocean Springs, Miss. Feather and fish scale flowers. 666

192. Bach, Mrs. Isaac, New York. Embroidered table cover. 669

193. Ball, Mrs. Spencer, F., Terre Haute, Ind. Table centre. 669

194. Barnard, Miss Edith, Wilmington, Del. Drawn work. 665

195. Barnes, Mrs. Geo., Howell, Mich.
 a Point lace handkerchief. 654
 b Drawn work scarf. 665

196. Barnett, Mrs. A., Tom's River, N. J. Guipure lace, bed spread and pillow shams. 664

197. Beach, Mrs. Isaac, New York. Cover inlaid with cloth stitches. 665

198. Beach, Mrs. M. G., Battle Creek, Mich. Drawn linen work. 665

199. Biemesderfer, S. Ursula, Kissel Hill, Pa. Hand made lace. 664

200. Birdsall, Mrs. A. E., Brooklyn, N. Y. Bed-clothes and costume fastener. 668

201. Blackstock, Mrs. Wm. M., Shadeland, Ind. Tea cloth. 669

202. Bodtker, Sara B., Chicago. Seal of the Board of Lady Managers. 669

203. Boots, Miss Alice, Wilmington, Del. Tea cloth. 665

204. Bradley, Mrs. Agnes M., Omaha, Neb. Doilies. 665

205. Brant, Miss J. A., Dubuque, Ia. Russian, Spanish, honiton and point applique laces. 664

206. Braselman, Mrs. Elizabeth, Washington, D. C. Bed spread, centre pieces, etc. 669

207. Brignardello, Miss Hortense, San Francisco, Cal. Drawn work. 665

208. Bruce, Mary E., Lafayette, Ind. Table cloth. 669

209. Buehler, Miss Martha, Harrisburg, Pa. Centre piece for table. 669

210. Buller, Mrs. D. W., Indianapolis, Ind. Table centre. 669

211. Burgess, Mrs. Della A., St. Louis, Mo. Hand-made thread lace. 664

212. Bush, Mrs. L. P., Wilmington, Del. Doilies. 665

213. Bush, Mrs. Walter, Wilmington, Del. Table covers, napkins, mats, etc. 665

214. Butler, Mrs. E., Mahaffey, Pa. Tapestry picture. 670

215. Butler, Isabel H., Bridgeport, Conn. Reproductions on the sewing machine of hand art needlework. 665

216. Caldwell, Miss Hattie D., Chicago. Lace made from fayal fibres. 664

WOMAN'S BUILDING.

217. Carnahan, Louise, Fort Wayne, Ind.
Table cloth. 669
218. Chapman, Mrs. Mary. Center piece
and doilies. 669
219. Chislett, M. Lucile, Chicago. Span-
ish drawn work. 665
220. Christopherson, Miss Marie, Chip-
pewa Falls, Wis. Kensington embroidery.
669
221. Clinchy, Mrs. A., Kansas City, Mo.
Counterpane, shams, etc. 665
222. Cluff, Gertie de F., Lodi, Cal. Gar-
ment fastener and hose supporter. 668
223. Coffin, Minnie A., Indianapolis, Ind.
Table cover, doilies, etc. 669
224. Committee on Woman's Work for
Pennsylvania, Philadelphia. Art needle-
work. 669
225. Cooper, Mrs. M. D., Bozeman, Mont.
Embroidery, drawn work and darning. 665
226. Cowdery, Mrs. Rosa E., Chicago.
Drawn work. 665
227. Criss, Mrs. S. E., Chicago. Mex-
ican drawn work. 665
228. Cusey, Miss Hannah, Wilmington,
Del. Dress front. 665
229. Dallett, Mrs. E. J., Wilmington, Del.
Center piece. 665
230. Davis, Mrs. F. L., North Pomfret,
Vt. Drawn work. 665
231. Decorative Art Society, Baltimore,
Md.
a Embroidered lunch cloth, napkins,
doilies, etc. 665
b Embroidered portiere, table covers
and screen. 669
232. Deman, Mrs. V. C., New Orleans, La.
Infants' caps. 665
233. Dure, Miss Helen, Wilmington, Del.
Center pieces, doilies, apron, etc. 665
234. Durrad, Mary, Chicago. Dress lift.
668
235. Earl, Elizabeth C., Connersville, Ind.
Table cloth. 669
236. Eaton, Mary M., Augusta, Me. Em-
broidery, tatting, etc. 665
237. Ellsworth, Connie F., LaFayette,
Ind. Tea cloth. 669
238. Fenner, Mary, South Orange, N. J.
Embroidery. 669
239. Fernald, Mrs. W. L., Logansport,
Ind. Table cloth. 669
240. Fette, Margaret M., Los Angeles,
Cal. Tapestry applique. 670
241. Field, Marshall, & Co., Chicago.
Embroidered table linen. 665
242. Flinn, Miss Annie, Wilmington, Del.
Center piece. 665
243. Fritschel, Mrs. Julia F. J., Straw-
berry Point, Iowa. Samples of needle-
work, hand-sewing and mending. 665
244. Fuller, Mrs. Rachel E., Kansas City,
Mo. Table cover. 665
245. Gardiner, Miss Sarah C., Cold
Springs, N. Y. Lace. 664
246. Gargotta, Mary, Kansas City, Mo.
Knit shawl and stitched chemise. 665
247. Gavan, Mrs. Frank, LaFayette, Ind.
Table cloth. 669
248. Girardeau, Miss M. H., Sumter, S. C.
Embroidery made in 1786. 665
249. Gray, Mrs. Mania, St. Louis. Table
cover. 669
250. Greenstreet, Flora V., Indianapolis,
Ind. Table runner. 669
251. Gregory, Mrs. D. E., Indianapolis,
Ind. Table center and doilies. 669
252. Griffiths, Katherine R., Indianapolis,
Ind. Table overlay. 669
253. Gruber, Mrs. Gustave, Lexington,
Mo. Pictures in tapestry embroidery. 669
254. Guion, Mrs. Frank, Leavenworth,
Kan. Drawn work lunch cloth. 665
255. Hall, Eva J., Stillwater, Minn. Self-
threading sewing machine needle. 668
256. Hall, Mrs. Q., Boise City, Idaho.
Needle-work. 665
257. Harker, Miss Annie P., Mineral
Point, Wis.
a Lace work. 664
b Embroidery and drawn-work. 665
258. Harley, Mrs. V. E., Kansas City,
Mo. Garment and hose supporter. 668
259. Houghton, L. C. O., Baltimore, Em-
broidered sofa cushion. 669
260. Heath, Misses, New York. Paper
flowers. 666
261. Hebron Columbian Needle Club, He-
bron, Neb. Lunch cloth. 669
262. Henley, Mrs. Martha, Carthage, Ind.
Table mat. 669
263. Heron, Mary R., Indianapolis, Ind.
Table mat. (6)
264. Herron, Kitty, Indianapolis, Ind.
Table decoration. 669
265. Herron, Lydia W., Indianapolis, Ind.
Table center and doilies. 669
266. Herron, May, Indianapolis, Ind.
Table decoration. 669
267. Hershfield, Mrs. Mary H., Helena,
Mont. Hand sewed children's underwear.
665
268. Higginson, Edith G., Chicago. Altar
front. 669
269. Hollingsworth, Miss Effie A., Kan-
sas City, Mo. Sideboard scarf in drawn
work. 665
270. Hollis, J. H., Brooklyn, N. Y. Knit-
ted work. 665
271. Hounsfield, Mrs., Wilmington, Del.
Needle-work done in 1800. 665
272. Hund, Mrs. Lena, Chippewa Falls,
Wis. Crotchet work curtain. 665
273. Hyder, Mrs. Mary, York, Neb.
Lunch cloth. 665
274. Ingram, Mrs. T. C., Kansas City,
Mo. Lace bed spread. 664
275. Jefferies, Llura, Wilmington, Del.
Center piece and doilies. 665
276. Johnson, Etta J., Rushville, Ind.
Table center. 669
277. Johnson, Lillian B., Indianapolis,
Ind. Table center. 669
278. Johnson, Miss Lulu, Wilmington,
Del. Table scarf. 669
279. Kane, Mrs. H. W., Jeffersonville,
Ind. Embroidered chamois. 669
280. Kane, Mrs. W. P. La Fayette, Ind.
Table mat. 669
281. Kenyon, Mrs. Mary J., Downer's
Grove, Ill. Lace handkerchief and linen
drawn work neck scarf made by lady
eighty-two years old. 664
282. King, Harriet E., Brazil, Ind. Plain
needle work. 665

UNITED STATES.

283. Kittinger, Fannie R., Wilmington, Del. Embroidered spread, table covers, etc. 665
284. Kofod, Mrs. Augusta, Chicago. Gold and steel embroidery done in Denmark in 1794. 669
285. Landon, Miss Milla, Brighton, N. Y. Silk butterflies, mounted; embroidered doilies, boxes, etc. 665
286. Lehman, Misses, Lebanon, Pa. Embroidered linen bed cover. 665
287. Leontin, Jaenne, Chicago. Garment fastener. 668
288. Levering, Amelia, F., La Fayette, Ind. Table cloth. 669
289. Lewis and Clarke Columbian Exposition Ass'n, Helena, Mont. Needlework. 665
290. Lockwood, Bertha Greene, Indianapolis, Ind. Table cloth. 669
291. Long, Mrs. W. J., Topeka, Kan. Point lace articles. 664
292. Lyons, Anna E., Syracuse, N. Y. Lace cape. 664
293. Major, S. Frances, Shelbyville, Ind. Table cloth. 669
294. Malone, Mrs. Richard A., Lancaster, Pa. Needlework. 665
295. Manchester, Nellie, La Crosse, Wis. Sofa pillow, scarf and doilies. 665
296. Mantel, Mrs. Anna, Chicago. Embroidery. 665
297. Masters, Mrs. M. A., Chicago. Center piece made by a lady seventy-six years old. 665
298. McCoy, Mary J., Rensselaer, Ind. Table cover. 669
299. McCullough, Miss, Washington, D. C. Needlework. 665
300. McCullough, Miss Caroline L., Bladensburg, Md. Holbein embroidery. 669
301. McLean County Columbian Club, Bloomington, Ill. Fine sewing. 665
302. Mendenhall, Mrs. Henry, Wilmington, Del. Tea cloth, doilies and center piece. 665
303. Mendenhall, Mrs. John, Wilmington, Del. Embroidery. 665
304. Miller, Miss Annie R., Philadelphia. Drawn work. 665
305. Minturn, Mrs. Alice S., St. Louis. Point lace. 664
306. Mitchell, Mrs. J. B., La Fayette, Ind. Table cloth. 669
307. More, Miss Grace, West Orange, N. J. Table square in drawn work. 665
308. Morris, Mrs. Dora I., Chicago. Point lace shams. 664
309. Morse, Mrs. Annie E., Fort Wayne, Ind. Table cloth. 669
310. Mott, H. C., East Hartford, Conn. Wax, feather, tissue paper, shell and fish scale flowers. 666
311. Oberg, Miss Kristina, Portland, Ore. Embroidery. 665
312. Ogden, Clara E. M., Orange, N. J. Embroidery. 665
313. Ogden, Mrs. R. E., Iowa City, Iowa. Lace. 664
314. Olberg, Mrs. O. N., Albert Lea, Minn. Ladies dress lifter and sleeve holder. 668
315. Olds, Mrs. Henry G., Fort Wayne, Ind. Table runner and doilies. 669
316. O'Niell, Mrs. W. O., Prescott, Ariz. Quilt made of army badges. 665
317. O'Shaunessay, Miss Lucy, Cincinnati.
 a Handkerchief and veil. 664
 b Embroidered handkerchief. 665
318. Owen, Minerva, Middletown, N. J. Counterpane. 665
319. Parker, M. E., & Co., Camden, Me. Scale work flowers. 666
320. Parker, Susie, Rensselaer, Ind. Table mats. 669
321. Pell-Clarke, Henrietta, Springfield Centre, N. Y. Ecclesiastical embroidery. 669
322. Philadelphia School of Art Needlework, Philadelphia. Hand embroidery. 669
323. Pierce, Mrs. Harriet, Grand Rapids, Mich. Handkerchief. 665
324. Pilkington, Mrs. W. A., Bridgeport, Conn. Sleeve holder and hat pin. 668
325. Porter, Mrs. Willard H., Wilmington, Del. Embroidery made in 1799. 665
326. Powers, Helen, St. Louis, Mo. Spool holder. 668
327. Putnam, Lydia H., Logansport, Ind. Table mat. 669
328. Quein, Floretta, Chicago. Veil clasp. 668
329. Radford, Mrs. J., Chicago. Embroidered handkerchief. 665
330. Richardson, Miss Agnes, Wilmington, Del. Curtains and center piece. 665
331. Rickords, Mrs. C., Kansas City, Mo. Needlework. 665
332. Roberts, Mary C., Connersville, Ind. Table cloth. 669
333. Robinson, Mrs. H. C., Wilmington, Del. Doilies. 665
334. Robinson, Mrs. J. A., Ravenswood, Ill. Knitted bed spread. 665
335. Rose, Mary C., Chicago. Dinner cloth. 665
336. Ryerson, S. J., San Francisco, Cal. Lace and drawn thread work from United States and Mexico. 664
337. Sample, Mrs. Robert W., La Fayette, Ind. Table cloth. 669
338. Schalck, Emma R., Pottsville, Pa. Embroidery. 669
339. Schmidt, Mrs. H. D., York, Pa. Mexican drawn work; shawl made by lady one hundred years old; old-time embroidery. 665
340. Scott, Laura M., Red Rock, Mont. Embroidered child's dress. 665
341. Scott, Mrs. J. E., Indianapolis, Ind. Counterpane. 669
342. Seeley, Mrs. Levi, Lake Forest, Ill. Art needlework. 669
343. Sellers, Mrs. Francis G., Wilmington, Del. Tea cloth and doilies. 665
344. Shaw, Susan W., Downer's Grove, Ill. Point lace handkerchief, collars and cuffs. 664
345. Shepard, Harriet E., Indianapolis, Ind. Table cloth. 669
346. Smith, E. M., Newport, Vt. Drawn work. 665

WOMAN'S BUILDING.

347. Smith, Jessie I., New Haven, Conn. Embroidered table cloth. 669
348. Smith, Mrs. Ernest, Wilmington, Del. Bed spread, doilies, etc. 665
349. Smith, Mrs. Mollie, Rural Hall, N. C. Embroidery. 665
350. Smith, Nellie C., La Fayette, Ind. Table cloth. 669
351. Snow, Mrs. N. H., Mineral Point, Wis. Tapestry table cover. 670
352. Sogomeier, Mrs. A. Paola, Kan. Lace curtains. 664
353. Somerville, Emma M., Menominee, Mich. Art needlework, "Moses in the Bulrushes." 669
354. Spann, Mrs. John M., Indianapolis, Ind. Table center. 669
355. Stanley, Sara E., Portland, Me. Needlework. 665
356. Stannes, Orpha A., Indianapolis, Ind. Curtain. 669
357. Stark, Mrs. W. H., Chicago. Lace bed spread and pillow shams. 664
358. State of New York, Board of Women Managers.
a Laces. 664
b Antique embroideries. 665
c Fans. 667
359. Stanton Woman's Relief Corps, Los Angeles, Cal. Embroidered badge. 665
360. Stearns, Mrs. R. D., St. John's, Mich. Drawn work. 665
361. Steigely, Miss Emily, LaPorte, Ind. Table cloth. 669
362. Stevens, Mrs. E. J., Washington, D. C. Tapestry. 670
363. Stevens, Mrs. William, Brandon, Miss.
a Point lace. 664
b Venetian emoroidery. 669
364. Stillwell, Maria, Brownstown, Ind. Table cloth. 669
365. St. Joseph Academy, St. Augustine, Fla. Lace work. 664
366. Studebaker, Mrs. Clem, South Bend, Ind. Library table cloth. 669
367. Taylor, Susan A., Lafayette, Ind. Table mat. 669
368. Thurston, Matilda, Chicago, Ill. Point lace handkerchiefs. 664
369. Trump, Miss May, Wilmington, Del. Embroidery. 665
370. Tucker, Mrs. H. S., Indianapolis, Ind. Table cloth. 669
371. Turkish Compassionate Fund, New York.
a Embroidered bed spreads, center pieces, doilies, etc. 665
b Art hand embroidery for home and table decoration. 669
372. Turner, Mrs. L. E., North Fairfield, Ohio.
a Point lace work. 664
b Crochet work; embroidered table linen, etc. 665
c Embroidered table scarfs, sofa pillows, etc. 669
373. Voos, Mrs. A., Portland, Ore. Curtains, bed spread, tidies, etc. 664
374. Walter, Mrs. Virgil W., Wilmington, Del. Flannel skirt. 665
375. Warner, Mrs. Anna R., Wilmington, Del. Embroidery done in 1797. 665
376. Warner, Mrs. E. T., Wilmington, Del. Dress front, mats, cushion, etc. 665
377. Waters, Miss, Mineral Point, Wis. Drawn work. 665
378. Westmoreland County Auxiliary Committee, Greensburg, Pa. Needle work. 665
379. White, Mrs. M. E., Butte, Mont. Needle work. 665
380. Whitman, Mrs. J. M., Montpelier, Idaho. Embroidered symbolical flag made by Mormon women. 669
381. Williamson, Amanda, Indianapolis, Ind. Table cloth. 669
382. Williamson, Amy, Tipton, Ind. Table cloth. 669
383. Williamson, Mrs. John H., Indianapolis, Ind. Table cloth. 669
384. Williamson, Mary A., Indianapolis, Ind. Embroidered table and bedroom furnishings. 669
385. Wilson, Lilian A. B., Meriden, Conn.
a Center piece, cushion and doilies. 665
b Table spread. 669
386. Wise, Mrs. Elizabeth J., Wilmington, Del. Thread lace. 664
387. Zimmermann, Catherine, St. Charles, Mo. Work in tatting. 665

GROUP 107.

Hair Work, Coiffures, and Accessories of the Toilet.

388. Keith, Mrs. George, Maltese, Mo. Bouquets made of the hair of the ladies of the World's Fair Committee of St. Louis County, Mo. 672
389. Lyons, Anna Eliza, Syracuse, N. Y. Hair work. 672
390. McDonald, Mrs. J., Streator, Ill. Hair wreath. 672

GROUP 108.

Traveling Equipments—Valises, Trunks, Toilet Cases, Fancy Leather-work, Canes, Umbrellas, Parasols, etc.

391. Eaton, Mrs. Minerva J., Hot Springs, S. Dak. Trunk. 679
392. Hayes, Gretta L. S., Springfield, Mass. Wardrobe trunk. 679
393. Law, Lizzie H., Providence, R. I. Safety pockets for purses, etc. 680
394. Palmer, Elizabeth R., Philadelphia, Pa. Trunk with elevating attachment. 679

GROUP 109.

Rubber Goods, Caoutchouc, Gutta Percha, Celluloid and Zylonite.

395. Foxworthy, Mrs. Mollie, Lincoln, Neb. Waterproof garment. 683

GROUP 110.

Toys and Fancy Articles.

396. Dike, May, Boston. Penwipers and jewelry plate. 695
397. Dodge, Mrs. Arthur M., New York. Costume doils. 693
398. Featherstone, Miss Sara W., Toledo, Ohio. Card game. 693

UNITED STATES.

399. Heath, E. H. & Co., New York. Paper lamp shades, glove and bon-bon boxes, etc. 695
400. Macfie, Anne E., Grand Haven, Mich. Game of art characters. 693
401. Milliken, Miss Annie B., Chicago. Toy folding chair. 693
402. Parker, M. E., & Co., Camden, Me. Scale work jewelry. 695
403. Smith, Mrs. Wm. H., New York. Tops and dolls. 693
404. Sweet, Miss Stella, Kansas City, Mo. The Easter egg toy. 693

GROUP 111.

Leather and Manufactures of Leather.

405. Breves, Mrs. H., Chicago. Embossed leather chair seat and back. 705
406. Fobes, Harriet K., East Orange, N. J. Leather work decorated by etching. 705
407. Heimrod, Dora L., Omaha, Neb. Hand carved leather chair in high relief. 705

GROUP 115.

Heating and Cooking Apparatus and Appliances.

408. Bulkley, Mrs. Mary B., St. Louis. Duster. 730
409. Burns, Priscilla M., St. Louis. Flour sifter. 730
410. Cochrane, Mrs. J. G., Shelbyville, Ill. Dish washer. 730
411. Durell, M. S., New York. Steam radiator attachment. 726
412. Everhard, Mary M., St. Joseph, Mich. Metal kneading board. 730
413. Foxworthy, Mrs. Mollie, Lincoln, Neb. Gasoline kitchen. 729
414. Hambel, Mrs. A. J., Chicago. Egg beater. 730
415. Hamilton, Catherine M., Decatur, Ill. Model of convertible chair. 730
416. Hillyer, Mrs. Harriet, R., Madison, Wis. Cooking table. 730
417. Holcomb, Mary H., Chicago. Baking dish. 730
418. Holden, Mrs. Martha B., Chicago. Carpet and floor duster. 730
419. Minster, Elizabeth, Ravenswood, Ill. Bolster. 730
420. Noland, Mrs. Mary B., Independence, Mo. Meat boiler. 730
421. Robertson, Emma L. I., Port Hope, Canada. Frying pan. 730
422. Sawyer, Mrs. H. A., St. Louis. Dish heater. 730
423. Shleppy, Mrs. Ettie E. B., Russellville, Ind. Beef mangle. 730
424. Wilcox, Olive W., St. Louis. Bake oven. 727
425. Wood, Mrs. Eliza A., Easton, N. Y. Mop pail. 730

GROUP 116.

Refrigerators, Hollow Metal Ware, Tinware, Enameled Ware.

426. Harris, Mary M., Chicago. Model of refrigerator. 731
427. Romney, Mrs. C. W., Chicago. Water cooler and refrigerators. 731

GROUP 117.

Wire Goods and Screens, Perforated Sheets, Lattice Work, Fencing, Etc.

428. Price, Mrs. Charles, Salisbury, N. C. Screen. 738

GROUP 120.

Plumbing and Sanitary Materials.

429. Brack, Mrs. W. B., El Paso, Tex. Portable sink. 755
430. Dexter, Mary J., Wauwatosa, Wis. Portable bath-tub. 753
431. Neal, Miss S. C., New York. Portable bath-tub for infants. 753

GROUP 121.

Miscellaneous Articles of Manufacture not Heretofore Classed.

432. Caldwell, Miss Hattie D., Chicago. Straw work on lace.
433. Dexter, Mrs. S. H., Chicago. Fancy rope work.
434. Smith, Mrs. S. L., Austin, Ill. Scale for measuring hems, etc.
435. Webb, Mrs. Frank, Wilmington, Del. India ink marking.
436. Wolfsbruck, Carrie, New York. Artificial teeth, fillings and dentures.

DEPT. K—FINE ARTS.

GROUP 139.

Sculpture.

- Ames, Mrs. S. F., New York.
437. Marble bust of Abraham Lincoln. 820
438. Plaster bust of Ulysses S. Grant. 820
- Barton, Miss Carrie, Lincoln, Neb.
439. Young Athlete. 822
- Brooks, Caroline S., Cincinnati, Ohio.
440. Bust of Lucretia Mott. 820
- Chislett, Mabel C., Chicago.
441. Plaster bust. 820
- Copp, Ellen Rankin, Chicago.
442. Plaster portrait of Harriet Monroe. 820
- Curtis, Amelia D., St. Joseph, Mo.
443. Bas-reliefs. 821
- Dunham, Phebe A., Wayne, Ill.
444. Plaster medallions. 820
- Gates, Adeline, Minneapolis, Minn.
445. Portrait bust in plaster. 820
- Hammond, Jane N., Boston.
446. Plaster medallions. 820
- Hoxie, Vinnie Ream, Little Rock, Ark.
- Statuary in marble.
447. "Miriam." 820
448. "The West." 820
449. "America." 820
- Jackson, Lily I., Parkersburg, W. Va.
450. Medallions in plaster. 830
- Lewis, Edmonia, New York.
451. Statuettes. 820
- Palette Club, Chicago.
452. Sculpture. 820
- Prescott, Katharine T., Boston.
453. Bas-relief and bronze medallions. 821
- Slater, Mary E., Philadelphia.
454. Panel in plaster of Paris. 820

WOMAN'S BUILDING.

- Tobin, Benedette B., Austin, Tex.
 455. Group of Genii. 820
 456. Statue of the King. 820
 Wadsworth, Fanny L., Philadelphia.
 457. Bronze statuette. 822
 Whitney, Anne, Boston.
 458. Marble bust of Lucy Stone. 820

GROUP 140.

Paintings in Oil.

- A'Becket, Marie, New York.
 459. The Storm.
 Adams, Mrs. G. P., Chicago.
 460. A Pail of Raspberries.
 461. Grandma's Window.
 462. Plums.
 Anderson, Jessie B., Moorhead, Minn.
 463. Study of Negro Woman's Head.
 Barney, A. C., Cincinnati.
 464. Portrait.
 Beaux, Cecilia, Philadelphia.
 465. Colleen.
 Bell, Frances S., St. Louis, Mo.
 466. Oil paintings.
 Benedict, Euella, Lake Forest, Ill.
 467. Old Stories.
 Boggs, Mary H., Long Beach, Miss.
 468. Winter View of Gulf Coast.
 Bohn, Grace G., Chicago.
 469. A Staid Old Poser.
 470. Old Cider Mill.
 Bond, Frances N., Chicago.
 471. Posing.
 Brainerd, Mrs. M. N., Lansing, Mich.
 472. Eve.
 Brooks, Maria, New York.
 473. Down Piccadilly.
 Brown, Mrs. Delia F. H., Pinerolo, Italy.
 474. Oil paintings.
 Brown, Mrs. M. G., San Jose, Cal
 475. Basket of Peaches.
 Burton, Kate, Geneva, Ill.
 476. White's Creek.
 477. A Country Road.
 Carl, Kate A., Paris, France.
 478. Oil paintings.
 Chapman, Minerva J., Chicago.
 479. The Village Church.
 Clark, Mrs. T. C., Stillwater, Minn.
 480. Still-life Study.
 Clarke, Sarah F., Marietta, Ga.
 481. In the Great Smoky Mountains, N. C.
 Coats, Ida May, San Francisco, Cal.
 482. Light of the Harem.
 Coman, Mrs. C. B., Waterville, N. Y.
 483. Thistledown.
 Conly, Jean, Boise City, Idaho.
 484. Spring Among the Foot Hills.
 Craig, Mrs. A. M., Galesburg, Ill.
 485. Roses.
 Dodge, M. Leftwich, New York.
 486. Portrait de ma Fille.
 Dodgshun, Mrs. A. V., Chicago.
 487. Landscapes.
 Dohn, Pauline A., Chicago.
 488. Portrait of Mrs. M. W. Means.
 Emmet, Lydia, New York.
 489. Portrait: Study.
 Fassett, Mrs. C. A., Washington, D. C.
 490. Oil paintings.

- Fenner, Emily, South Orange, N. J.
 491. Carnations.
 Fenner, Lucy T., South Orange, N. J.
 492. Dog's Head.
 France, Mrs. Eurilda Loomis, Pittsburg, Pa.
 493. Preoccupation.
 Fry, Georgie T., St. Louis, Mo.
 494. Mountain Brook.
 495. A Study.
 Gill, Rosalie L., New York.
 496. Chat.
 Gray, Miss Abbot, Cincinnati.
 497. Portrait.
 Grothjean, Fanny C., Boise City, Idaho.
 498. Marine.
 Hart, Letitia B., New York.
 499. A New Book.
 Harwood, Mrs. Hattie R., Salt Lake City, Utah.
 500. Still Life.
 Haydock, Atha, Cincinnati.
 501. Portrait.
 502. Landscape.
 Hayne, Mrs. J. T., Portland, Ore.
 503. Roses.
 Haynes, C. Coventry, New York.
 504. Portrait.
 Heberton, Fannie O., Philadelphia.
 505. Portraits.
 Hejusten, Mrs. H. T., Milwaukee, Wis.
 506. Portrait.
 Herrick, Caroline K., Brick Church, N. J.
 507. Still Life.
 Hess, Miss Lydia P., Chicago.
 508. Two Friends from Normandy.
 Holmes, Miss Mary J., Chicago.
 509. Portrait of Hannah Moore supposed to have been painted by Sir Joshua Reynolds.
 510. Still Life.
 Holt, Mrs. Maud S., Little Rock, Ark.
 Jackson, Lily I., Parkersburg, W. Va.
 511. Dogs.
 Joslyn, Kate, Janesville, Wis.
 512. Studies of Roses.
 Keith, Dora Wheeler, New York.
 513. Daphne's Nymphs.
 Kellogg, Alice D., Chicago.
 514. Portrait.
 Kimbrough, Mrs. C. G., Lexington, Miss.
 515. Portrait.
 516. Landscape.
 Klumpke, Anna E., Boston.
 517. Oil painting.
 Lamar, Kate L., Washington, D. C.
 518. Portrait of Justice L. Q. C. Lamar.
 Lesshaft, Mrs. Ottily, Harrisburg, Pa.
 519. Swabean Peasant.
 Lord, C. A., Cincinnati.
 520. Noon.
 Lyon, Haitie L., Bethel, Conn.
 521. A Bouquet of Onions.
 MacKubin, Miss Florence, Baltimore.
 522. A Florentine Mandolin Player.
 Matthern, Theodora K., Chicago.
 523. Autumn's Last Offering.
 524. Group of Orchids.

UNITED STATES.

525. Matthews, Retta, Arlington, Ind.
 Salle de Venus, Louvre.
 526. Maynith, Emma, Washington, D.C.
 Portrait of a child.
 McDougne, Louise F., Cincinnati.
 527. Landscape.
 McLaughlin, M. Louise, Cincinnati.
 528. Head.
 McLean, Eugenie, Pullman, Ill.
 529. A Dreamer.
 Mumaugh, Mrs. F. M., Omaha, Neb.
 530. Beulah's Dog.
 Natt, Phebe D., Philadelphia.
 531. Illustrations in black and white.
 Newman, Mrs. W., Cincinnati.
 532. Portrait.
 Nichols, Rhoda H., New York.
 533. A Venetian Courtyard.
 Owen, Mrs. Ella S., Burlington, Vt.
 534. Roses.
 Palette Club, Chicago.
 535. Paintings.
 Parmele, Madge B., Rochester, Minn.
 536. Portrait of Lady with Violin.
 537. Fruit.
 Parsons, Orrin Sheldon, New York.
 538. Portrait of Mrs. Lillian Devereaux
 Blake.
 Plympton, A. H., Cincinnati.
 539. Landscape.
 Rea, Ellie, Fargo, N. D.
 540. Norwegian Girl.
 Rohrer, Alice H., Worthington,
 Minn.
 541. Marine.
 542. Old Log Cabin near Spring Lake, Ia.
 543. Bachelor's Lunch.
 Scott, E. M., New York.
 544. Cherries.
 Shepley, Annie B., New York.
 545. Work and Play.
 Smith, Letta C., Detroit, Mich.
 546. Five O'clock Tea.
 Smith, Miss M., Minneapolis, Minn.
 547. Early Morning on the Lake of the
 Isles.
 Solari, Mary M., Memphis, Tenn.
 548. Beggars in Sympathy.
 Spencer, Mary, Cincinnati, O.
 549. Boys.
 Stewart, Luella, M., Syracuse, N. Y.
 550. Portrait of Jean Laurent.
 Stone, Ellen J., New York.
 551. Portrait.
 Taber, Mrs. P. C., New York.
 552. Cherries.
 Tobin, Benedette B., Austin, Texas.
 553. Oil painting.
 Uhler, Miss C. Estelle, Lebanon, Pa.
 554. The Gleaners.
 Vanderpool, Emily K., New York.
 555. Spirit of the Nineteenth Century.
 Uhler, Miss C. Estelle, Lebanon, Pa.
 556. The Gleaners.
 Wachman, H., Cincinnati.
 557. Baby.
 Wade, Caroline D., Chicago.
 558. A Little Maid.
 Wadhams, Mrs. J. A., Chicago.
 559. Roses.
 Walter-Eisenlohr, L., New York.
 560. Divided Attention.

- West, A. M., Minneapolis, Minn.
 561. Landscape.
 562. Roses.
 Williams, Mrs. M. D., Indianapolis,
 Ind.
 563. A Bit of Hoosierdom.
 Wood, Virginia H., Ivy Depot, Va.
 564. Old Virginia.
 Young, Mrs. L. C., Portland, Ore.
 565. Paintings of fruits.

GROUP 141.

Paintings in Water Colors.

- Attwill, Elizabeth, Chicago.
 566. Water color painting.
 Bohn, Grace G., Chicago.
 567. Roses.
 Brooks, Elizabeth, Chicago.
 568. Springtime.
 569. On the Shenango.
 Brooks, Frances M., Chicago.
 570. The Old Cider Mill.
 Butler, Mrs. T. J., Prescott, Ariz.
 571. Wild Flowers.
 Darlington, Alice L., West Chester,
 Pa.
 572. Portrait.
 Derickson, Clara M., Minneapolis,
 Minn.
 573. Landscape.
 574. Still Life.
 Fasset, Mrs. C. A., Washington,
 D. C.
 575. La Marquise.
 Harrison, Agnes, Minneapolis, Minn.
 576. Water color.
 Hart, Miss Lilly M., Champaign, Ill.
 577. Water color paintings of insects.
 Herrick, Caroline K., Brick Church,
 N. J.
 578. Roses and Still Life.
 Hoke, Martha H., St. Louis, Mo.
 579. Water color.
 Hooper, Miss Anna, Wilmington,
 Del.
 580. Water color.
 Hugher, Katherine E., New York.
 581. Fresh Tulips.
 582. Faded Tulips.
 583. Corner of Southern Kitchen.
 584. Portrait de ma Fille.
 Hughes, Marie G., Salt Lake City,
 Utah.
 585. Water color studies.
 Lannoy, Mrs. F. de, Chester, Pa.
 586. Water color paintings.
 Lathrop, Mrs. A. A., Chicago.
 587. Scenery in Montana.
 Leiper, Eliza S., Chester, Pa.
 588. Historical painting.
 Ludwig, Katie K., Erie, Pa.
 589. African Scenes.
 McKinstry, Grace E., Faribault, Minn.
 590. Angels.
 McLean, Miss Charlotte E., Hart-
 ford, Conn.
 591. Daisy Field near Stockbridge, Mass.
 Murdock, Sarah A., Stillwater, Minn.
 592. Study of Moccasin Flower.
 Pattison, Alice M. G., St. Louis.
 593. La Tuilerie.

WOMAN'S BUILDING.

- Roberts, Mrs. G. W., Highland Park, Ill.
 594. Pass Through the Woods.
 Smith, Miss M., Minneapolis, Minn. Orchids.
 595. Solari, Mary M., Memphis, Tenn.
 596. Courtyard of Il Bargello, Florence, Italy.
 597. Campanile of Santa Croce, Florence Italy.
 Taber, Mrs. P. C., New York.
 598. Fruit piece.
 Tobin, Benedette B., Austin, Tex. Water color.
 599. Wales, Florence, Minneapolis, Minn. In the Harbor.
 600. Late Afternoon.
 601. Violets.
 602. West, A. M., Minneapolis, Minn.
 603. Old Bridge in Wales.

GROUP 142.

Paintings on Ivory, on Enamel, on Metal, on Porcelain, or other Wares; Fresco Painting on Walls.

604. Anderson, Louise C., Chicago. Paintings on porcelain.
 605. Archambault, Mrs. Anna M., Philadelphia. Tapestry painting.
 606. Axtell, Miss Ella C., St. Louis, Mo. Portraits on china.
 607. Board of Women Managers of the State of New York. Miniatures.
 608. Boyden, Emily M. B., Chicago. Dog in embroidery.
 609. Butts, Mrs. S., Dennison, Tex. Oil paintings in relief on plush, canvas, etc.
 610. Cassatt, Miss, Paris, France. Decorative panel in north tympanum in Woman's Building.
 611. Coles, Miss Agnes, New Rochelle, N. Y. Miniatures on marble and ivory.
 612. Dana, Mrs. Mary H., New Haven, Vt. Paintings on marble.
 613. Dodge, Virginia V., Beverly, Ohio. Paintings on velvet and porcelain.
 614. Emmet, Miss Lydia, New York. Decorative panels on west side of gallery in Woman's Building.
 615. Fairchild, Miss, Boston. Decorative panels on east side of gallery in Woman's Building.
 616. Fleming, Caroline F., Minneapolis, Minn. Painted photographs.
 617. Foster, Marie B., Chicago. Paintings on porcelain.
 618. Frazee, Mrs. A., Chicago. Sketch on porcelain.
 619. Fuldmer, Miss L., Milwaukee, Wis. Embroidered picture.
 620. Greenleaf, Mrs. Walter, Riverside, Ill. Paintings on porcelain.
 621. Heynsen, Mrs. John, Milwaukee, Wis. Painting on tapestry.
622. Hoke, Martha H., St. Louis. Miniatures on ivory.
 623. Keith, Dora W., New York. Painted ceiling.
 624. Kittredge, Emma A., Chicago. Paintings on porcelain.
 625. MacMonnies, Mrs., Paris, France. Decorative panel in south tympanum of Woman's Building.
 626. McKinstry, Grace E., Fairbault, Minn. Painting on tapestry.
 627. McLean, Eugenie, Pullman, Ill. Painted tapestry.
 628. Mann, Mrs. W. L., Chicago. Paintings on porcelain.
 629. Neale, Mrs. Vincent, San Rafael, Cal. Paintings on china.
 630. Payen, Cecile E., Chicago. Miniatures painted on ivory.
 631. Ryerson, Nellie C., Florence, Italy. Painted tapestries.
 632. Salmon, Florence E., New York. Painted tapestry wall hangings.
 633. Sewell, Mrs. Amanda B., New York. Decorative panels on east side of gallery in Woman's Building.
 634. Sherwood, Rosina E., New York. Decorative panels on west side of gallery in Woman's Building.
 635. Stevens, E. Jane. Tapestry (Guinevere).
 636. Tobin, Benedette B., Austin, Tex. Tapestry painting.
 637. Walker, Miss Lou, Fayetteville, Ark. Painted piano cover.
 638. Walker, Miss Mary E., Flushing, N. Y. Miniatures on porcelain.
 539. Walmsley, Mabel, Philadelphia. Heraldic painting on vellum.
 640. Webbing, Miss Ethel, New York. Miniatures painted on ivory.
 641. White, Emma G., Portland, Ore. Pictures on porcelain.

GROUP 143.

Engravings and Etchings; Prints.

642. Gilliland Anna, M., Plattsburg, N. Y. Wood engravings.
 643. Lord, C. A., Cincinnati. Engravings.
 644. Powell, Caroline A., Trenton, N. J. Artist proofs of wood engraving.
 645. Shipman, Miss Rebecca A., Lewiston, Mont. Proofs of wood engravings.
 646. Sussemilch, Miss Charlotte von, Delavan, Wis. Book of etchings, etc.

GROUP 144.

Chalk, Charcoal, Pastel, and Other Drawings.

647. Albright, Mrs. Frances L., Albuquerque, N. M. Crayon-pastel.
 648. Anderson, Jessie B., Moorhead, Minn. Lead-pencil sketches.
 649. Blake, Elizabeth, Prescott, Ariz. Crayon portrait.
 650. Brown, Mrs. Delia F. H., Pinerolo, Italy. Aquarelles.

UNITED STATES.

651. Bucy, Mrs. Estelle, Detroit, Mich.
Crayon portraits.
652. Carlisle, Miss M. H., Denver, Col.
Portrait of Miss Blanch Dougan.
653. Clark, Mrs. T. C., Stillwater, Minn.
Free hand drawing.
654. Comstock Anna B., Ithaca, N. Y.
Drawings of insects for engraving.
655. Culbertson, M. E. B., Richmond, Ind.
Maria Monk's daughter.
656. Degges, Kate P., St. Louis.
Crayon—Old Salem on the Sangamon, the early home of Abraham Lincoln in Illinois.
657. Dougan, Miss Blanch, Denver, Col.
Devoted to the Virgin.
658. Fassett, Mrs. C. A., Washington, D. C.
India ink drawing.
659. Foote, Mary H., New York.
India ink drawings.
660. Hart, Miss Lilly M., Champaign, Ill.
Drawings of insects and crustaceans.
661. Hawley, Mrs. Clara D., Lennox, S. D.
Pastel picture.
662. Heynsen, Mrs. Jahn, Milwaukee, Wis.
Pastel portrait.
663. Jekyll, Emily, Wichita, Kan.
Figure in pastel.
664. Natt, Phebe D., Philadelphia.
Pen and ink sketches.
665. Ritterhoff, Miss Amalie, Newark, N. J.
Pen sketches, etc.
666. Smith, Miss M., Minneapolis, Minn.
Fruit in pastel.
667. Sparks, Mrs. George W., Wilmington, Del.
Pastel painting.
668. Solari, Mary M., Memphis, Tenn.
Crayon work.
669. Suessmilch, Miss Charlotte von, Delavan, Wis.
Crayon of Napoleon I painted from life.

GROUP 146.

Exhibits of Private Collections.

670. Albright, Mrs. Frances L., Albuquerque, N. M.
Private collection of antiques.

DEPT. L—LIBERAL ARTS.

GROUP 147.

Physical Development, Training and Condition—Hygiene.

671. Carpenter, Emma H., Springfield, Vt.
Surgical bandage. 832
672. Chinese Woman's and Girls' Home Society, Portland, Ore. Photograph and chart. 831
673. Dodge, Mrs. Arthur M., New York.
Exhibit of training school for nurses. 832
674. Elkins, Miss Fannie, New York.
Plates, drawings, models and photographs. 832
675. Humphrey, T. G., Hays City, Kan.
Vapor cabinet. 832
676. Murphy, Mrs. Mary A., San Francisco, Cal. Metal hot-water appliance. 832
677. Orphans' Home and Hospital, Albany, Ore. Statistics and picture 831

678. Ovington, Irene H., Brooklyn, N. Y.
Bed pan. 832
679. Provident Dispensary, Rochester, N. Y. Photographs and statistics. 832
680. Romney, Mrs. C. W., Chicago.
a Laborers' dinner pail and heat converters. 826
b Water filters. 829
681. Training School for Nurses, Philadelphia. System, statistics, etc. 832
682. Wood, Miss Alice, Muskegon, Mich.
Model of toboggan slide. 825

GROUP 148.

Instruments and Apparatus of Medicine, Surgery and Prosthesis.

683. Epple, Louise, Chicago. Supporters, trusses and bandages. 837

GROUP 149.

Primary, Secondary and Superior Education.

684. Alumnae Ass'n of Pratt Institute, Brooklyn, N. Y. Samples of work. 843
685. American College for Girls, Scutari, Turkey. Work of the students. 851
686. Arnold, Miss A. A., Minneapolis, Minn. Work of school girls. 850
687. Bachmann, Sophia E., Chicago. Copy book for the blind. 849
688. Banniwel, Norma, Hickory, N. C.
Design for cabinet by girl 15 years old. 852
689. Beecher, Mrs. H. F., Port Townsend, Wash. Easel. 852
690. Bryn Mawr School, Baltimore, Md.
Model of School. 851
691. Chicago Trade School, Dressmaking Dept., Chicago. Models in full dress, charts, etc. 843
692. Corey, Mrs. L. S., Harvard, Neb.
Historical blocks and panels. 841
693. Kellogg, Mrs. Martha E., Battle Creek, Mich. System of ladies tailoring and dressmakers' supplies. 843
694. King's Daughters, St. Peter, Minn.
Fancy work done by women patients in the hospital for the insane. 849
695. Kuntze, Miss F. B., Trenton, N. J.
Design for needle-work. 852
696. McManus, Blanche, Chicago. Designs for mural decorations, wall-paper, etc. 852
697. Michener, Mrs. Mary, Ogontz, Pa.
Dress-making chart. 843
698. Monticello Seminary, Godfrey, Ill.
Statistics and work. 851
699. Peterson, Miss Maria, Chicago.
Samples of sloyd work to be taught to girls in the common schools. 850
700. Repley, Mrs. E. C., Hartford, Conn.
Designs for wall-paper. 852
701. School of Applied Designs for Women, New York. Designs as applied to wall-paper, carpets and the work of an architect's draughtsman, with samples of completed work. 852
702. School of Industrial Art and Technical Designs for Women, New York.
Working designs for carpets, wall-papers, printed textiles, etc., with specimens of fabrics. 852

WOMAN'S BUILDING.

703. Sisters of the Academy of Visitation, Washington, D. C. Books and charts. 851
 704. State of New Jersey. Statistics of female education and professions of the State. 853
 705. Thompson, Mrs. F. E., Kansas City, Mo. Garment cutter. 843
 706. Williamson, Mary A., Indianapolis, Ind. Designs for embroidery executed and exhibited by the women of Indiana. 852

GROUP 150.

Literature, Books, Libraries, Journalism.

707. Anthony, Mary E., Philadelphia. Biographical, poetical and prose works in manuscript. 854
 708. Campbell, Mrs. Ellis L., Wayne, Pa. Whittier's Centennial Hymn illuminated. 854
 709. Grace, Nellie R., Burns, Ore. Books and book making. 854
 710. Hollister, Mrs. Harvey J., Grand Rapids, Mich. Hymns showing styles of illumination in different periods. 854
 711. Lady stenographers of Park County, Livingston, Mont. Samples of stenographic work. 854
 712. Miller, Anna J., Washington, D. C. Books on dress reform. 854
 713. Morey, Mrs. Anna R., Hastings, Neb. Illuminated booklet. 854
 714. Morse, Alice C., Brooklyn, N. Y. Book covers. 854
 715. Orff, Annie L. Y., St. Louis. Chaperone magazine. 854
 716. State of New York, Women Managers of, Albany, N. Y. Books and pamphlets of statistics of the women of the State. 854
 717. Sweeny, Margaret, Chicago. Relief maps. 864
 718. Wilkinson, Thomas, South Waukegan, Ill. Sentences written by Madagascar women, with English translation. 854

GROUP 151.

Instruments of Precision, Experiment, Research and Photography.

719. Albright, Mrs. F. L., Albuquerque, N. M. Collection of photographs. 871
 720. Carter, Alice R., Chatham, Pa. Photographs of historical women and places in Chester County. 871
 721. Dock, Mira L., Harrisburg, Pa. Photographs. 871
 722. Farnsworth, Emma J., Albany, N. Y. Amateur photographs. 871
 723. Garrity, Miss, Chicago. Photographs. 871
 724. Kendall, Mrs. Marie H., Norfolk, Conn. Photographs. 871
 725. Millay, Mrs. Jerry, Phoenix, Ari. Album of photographs. 871
 726. Okis, Miss Gertrude, Boothwyn, Pa. Photographs. 871
 727. Proctor, Miss Hattie A. Chicago. Instrument to facilitate the analysis of oils. 875
 728. Richards, Miss Annie L., Boston. Amateur photographs. 871

729. Scull, Sarah A., Washington, D. C. Photographs. 871
 730. Slade, Elizabeth A., New York. Amateur photographs. 871
 731. Titus, Mrs. Lillie B., Boston. Photographs. 871
 732. Wellman, Miss M. B., Upland, Pa. Amateur photographs. 871
 733. Wells, Miss Kate, Salt Lake City, Utah. Tinted photographs. 871
 734. White, Mrs. C. E., Butte, Mont. Photographic view of Butte. 871
 735. Wright, Mrs. J. O., New York. Amateur photographs. 871

GROUP 152.

Civil Engineering, Public Works, Constructive Architecture.

736. Brewster, Clotilde K., New York. Designs and drawings for a villa. 889
 737. Cobb, Mrs. Anna M., Pensacola, Fla. Working plans, elevations and photographs of houses. 889
 738. Howe, Lois L., Cambridge, Mass. Architectural drawings for Woman's Building. 889
 739. Ransom, Frances A., East Palatka, Fla. Combination blind and screen. 889
 740. State of Iowa. Sioux City Corn Palace. 889
 741. Strong, Harriet W. R., Whittier, Cal. System of storage reservoirs for irrigation. 882
 742. Stuekert, Mary C. C., Denver Col. Model and drawings of building for co-operative living. 889

GROUP 153.

Government and Law.

743. Lockwood, Belva A. Washington, D. C. Copy of the law of 1879 admitting women to the U. S. Supreme Court. 890

GROUP 155.

Institutions and Organizations for the Increase and Diffusion of Knowledge.

744. Dana Natural History Society, Albany, N. Y. Representative papers, etc. 908
 745. Smithsonian Institute, Washington, D. C. Collective exhibit. 907

GROUP 156.

Social, Industrial and Co-Operative Associations.

746. Compton, Mrs. Chas. W., Newark, N. J. Masonic apron. 917
 747. Girls' Friendly Society, New York. Reports, statistics and fancy work. 918
 748. Massachusetts Ass'n of Working Girls' Clubs, Boston. Reports and maps. 918
 749. Minnesota State Board, Minneapolis, Minn. Statistics; philanthropic and reform literature. 918
 750. Woman's Physiological Society, Chicago. Manuscript. 918
 751. Woman's Relief Society, Portland, Ore. Photograph and statistics. 918

UNITED STATES.

GROUP 157.

Religious Organizations and Systems—
Statistics and Publications.

752. Art embroidery executed by pupils of Girls' Industrial School at Guntur, South India. 921
753. Board of Foreign Missions of the Evangelical Lutheran Church, Baltimore.
754. Woman's Columbia Club of Sedgwick county, Wichita, Kan. Chart of religious work in Wichita, Kan. 919

GROUP 158.

Music and Musical Instruments—The
Theatre.

755. Anthony, Mary E., Philadelphia. Original manuscript music 926
756. Church, Lily Regina, Parkersburg, W. Va. Music text books, etc. 926
757. Pick, Libbie & Esther, Chicago. Music cabinet attachment for pianos and organs. 930
758. Wilde, Mary V., St. Louis, Mo. Rubber piano pedal. 730

DEPT. M.—ETHNOLOGY.

GROUP 172.

Woman's Work.

759. Chicago Exchange for Woman's work, Chicago. Woman's work.
760. Philadelphia County Committee, Philadelphia. Photographs, statistics, etc., of women's work in libraries, journalism, hospitals, etc.
761. Philadelphia Exchange for Woman's Work, Philadelphia. Woman's work.
762. Pittsburg Exchange for Woman's Work, Pittsburg, Pa. Woman's work.
763. Statistical Committee for Massachusetts, Boston. Charts of statistics of women of Massachusetts.
764. Woman's Exchange and Decorative Art Society, Detroit, Mich. Woman's work.
765. Woman's Work for Woman, Chicago. Statistics of organization.

GROUP 174.

The North American Indian.

766. DeLaney, Mrs., Alaska. Alaska Indian work 960
767. Fransway, Mrs. Louisa, Oldtown, Me. Baskets, canoes, bows and arrows, wooden tomahawks and knives, snow shoes and moccasins made by the Penobscot Indians. 960
768. Hare, Wm. H., Sioux Falls, South Dakota. Altar cloth executed in bead work by Oglala, Sioux Indian woman. 960

769. Ladies of San Juan World's Fair Aux. Com., Aztec, N. M. Navajo blanket to be used as portiere in Woman's Building. 960

770. Pallardy, Alice, Pine Ridge Agency, South Dakota. Beaded altar cloth made by Sioux Indian woman. 960

771. Patrick, Anne B., Leadville, Col. Navajo blankets and baskets, with two Indian women at work at Indian loom. 959

GROUP 175.

Portraits, Busts and Statues of Great
Inventors and Others who have Con-
tributed Largely to the Progress of
Civilization and the Well-being of Man.

772. Board of Women Managers of the State of New York. Autographs and portraits of famous women of the past four hundred years.

773. Copp, Ellen Rankin, Chicago. Portrait in bronze of Mrs. Potter Palmer, President Board of Lady Managers World's Columbian Commission.

GROUP 176.

Isolated and Collective Exhibits.

774. French-Sheldon, M., Boston. African exhibit. 968

775. Hunt, Mrs. L. P., St. Paul, Minn. Loan collection of ancient articles. 968

776. Lady Managers of the World's Columbian Commission, Chicago. Neck-handkerchiefs, Bohemian and Slovak bonnets and babies' hoods, head ornaments, embroidered tail of holubinka, aprons, christening cloths, cushion covers, Slovak and Moravian embroidery, photographs of female costumes and country furniture, etc., donated by the women of Bohemia to the permanent memorial building at Chicago. (In Main Gallery) 968

DEPT. N—FORESTRY.

GROUP 19.

Forestry, Forest Products.

777. Cooper, Mrs. M. D., Bozeman, Mont. Straw basket. 111

778. Fisherwomen of New Jersey. Wall and scrap baskets, etc. 111

779. Jones, Mrs. Mable C., Pittsburg, Pa. Historic woods. 99

780. Ladies of Mercer County, Mercer, Pa. Inlaid table of over 2,000 pieces of native woods. 100

781. McManus, Miss Blanch, Jackson, Miss. Sixty panels of different woods with fruit, leaf and flower of each painted on it. 113

Loan Collection of Bureau of Applied Arts, New York.

DEPT. A.—AGRICULTURE.

GROUP 9.

Animal and Vegetable Fibres.

1. Downer, Miss L. de F., New York. 59
- Flax.

DEPT. H.—MANUFACTURES.

GROUP 89.

Typewriters, Paper, Blank Books, Stationery.

2. Howell, C. E., New York. Wall 563
- paper.

GROUP 90.

Furniture of Interior Upholstery and Artistic Decoration.

3. Tiffany Glass & Decorating Co., New York. Silk velours portiere. 568

GROUP 91.

Ceramics and Mosaics.

4. Bicknell, Mrs. Anna, Brooklyn, N. Y. Decorated china jardiniere. 576
5. Cox, Mrs. Kenyon, New York. Decorative panel. 579
6. Curtis, May L., Orange, N. J. China pitcher. 576
7. Dwight, Miss Minnie, New York. China. 576
8. Garborino, Clotilde, New York. Fish platter and plates. 576
9. Hall, Miss Frances P., New Haven, Conn. Tray, pitcher, bonbonniere, etc. 576
10. Monachesi, Mme. Nicola, New York. Plate and dish. 576
11. Osgood, Mrs. Worth, New York. Large vase. 576
12. Raymond, E. Launitz, East Orange, N. J. Decorated plates, dish jar, etc. 576
13. Sprague, Mrs. Harriot E., New York. Dresden china tête-a-tête set. 576
14. Wilmarth, C. B., New Rochelle, N. Y. Pitcher and tray. 576

GROUP 93.

Art Metal Work—Enamels, etc.

15. Baxter, Miss Sara, New York. Decoration, "Order of Columbus." 585
16. Emerson, Miss S. H., New York. Copper jug and brass jar. 585
17. Huntington, Metehill, Pulaski, N. Y. Hammered brass mirror frame. 585
18. Marshall, Miss Lily, New York. Brass work. 585
19. Parish, Miss Grace, New York. Etched brass frame. 585
20. Van Kuyck, Miss Pauline, New York. Repousse-work frame. 585

GROUP 94.

Glass and Glass Ware.

21. Tiffany Glass & Decorating Co., New York. Glass lights. 592
22. Tillinghast, Miss Mary, New York. Glass mosaics. 595

GROUP 95.

Stained Glass in Decoration.

23. Armstrong, Margaret M., New York. Stained glass panel. 596

GROUP 96.

Carvings in Various Materials.

24. Fieman, Miss Elsie C., New York. Carved stand and bellows. 598
25. Vanderpool, Mrs. E. N., New York. Carved box. 598

GROUP 100.

Silk and Silk Fabrics.

26. Redmond, Frieda V., New York. Printed silks. 629

GROUP 102.

Yarns and Woven Goods of Cotton, Linen and other Vegetable Fibres.

27. Downer, Miss L. de F., New York. Linen table cloth. 639

GROUP 106.

Lace, Embroideries, Trimmings, Artificial Flowers, Fans, etc.

28. Cargill, Mrs. Henry, Poughkeepsie, N. Y. Center pieces. 669
29. Carter, Mrs. Esther, New York. Lace curtains, tea cloth, doilies, etc. 664
30. Colgate, Mrs. Jas. B., New York. Painted fans. 667
31. Day, Mrs. Henry, New York. Table covers. 669
32. Downer, Mrs. Frederick, New York. Hand-made lace scarf. 669
33. Drivdahl, Miss Marie, Brooklyn, N. Y. Embroidered cushion. 669
34. Foote, Catherine, Delhi; N. Y. Embroidered mermaid. 669
35. Frost, Miss Helen, Poughkeepsie, N. Y. Center piece. 669
36. Gilchrist, Mrs. Geo., New York. Embroidered dinner set. 665
37. Hampton, Mrs. Henry, Poughkeepsie, N. Y. Center pieces. 669
38. Hogan, Kate, New York. Braid lace. 664
39. Jackson, Marion T., New York. White satin piano cover. 669
40. Nicholls, Rhoda H., New York. Hand-made point lace. 564
41. Peters, Mary Austin, New York. Embroidered landscapes. 669

LOAN COLLECTION OF BUREAU OF APPLIED ARTS, NEW YORK.

42. Preston, Mrs. R. W., Brooklyn, N. Y. Crochet counterpane and pillow covers. 665
43. Ryerson, Miss N. C., New York. Tapestries 670
44. Satterlee, Miss Florence, New Brighton, N. Y. Embroidered picture. 669
45. Schroeder, Miss Emma, Brooklyn, N. Y. Lace doilie. 664
46. Stevens, Mary D., New York. Ecclesiastical embroidery. 669
47. Stokes, Olivia P., New York. Ecclesiastical lace. 664
48. Troy Women's Exchange, Troy, N. Y. Mexican drawn work. 665
49. Wells, Miss Annie, Philadelphia. Embroidered picture. 669

GROUP 111.

Leather and Manufactures of Leather.

50. Hasbrouke, Mary K., Ogdensburgh, N. Y. Specimens of stamped leather. 705

DEPT. K.—FINE ARTS.

GROUP 140.

Paintings in Oil.

51. Armstrong, Helen M., New York. Decorative panel.
52. Redmond, Frieda V., New York. Decorative panel.
53. Stephens, Alice B., Philadelphia. Black and white pictures.

GROUP 141.

Paintings in Water Colors.

54. Armstrong, Margaret M., New York. Poppies.
55. Huger, Miss K. M., New York. Autumn.
56. Nicholls, Rhoda H., New York. On the Beach.
57. Scott, Mrs. E. M., New York. Flowers.
58. Sherwood, Mrs. Arthur, New Rochelle, N. Y. Water colors.

GROUP 144.

Chalk, Charcoal, Pastel and Other Drawings.

59. Century Co., New York. Drawings.
60. Milham, Miss Zella, Brooklyn, N. Y. Pen and ink sketch.
61. Sherwood, Mrs. Arthur, New Rochelle, N. Y. Pastels.

GROUP 145.

Antique and Modern Carvings; Engravings in Medallions or in Gems; Cameos, Intaglios.

62. Prescott, Katherine, Boston. Intaglio, Faust and Marguerite.

DEPT. L.—LIBERAL ARTS.

GROUP 149.

Primary, Secondary and Superior Education.

63. Armstrong, Helen M., New York. Sketch and cartoon for decorative panel. 852

64. Armstrong, Margaret M., New York. Designs for book covers. 852
65. Aspinwall, Miss Eliza, New York. Designs for wall paper and silks. 852
66. Aspinwall, Miss M. A., New York. Designs for wall paper and silks. 852
67. Atwater, Edith, Brooklyn, N. Y. Design for silver vase. 852
68. Blashfield, Mrs. E. W., New York. Design for mirror. 852
69. Bullard, Frances A., New York. Design for frieze. 852
70. Clark, Miss Ida, New York. Designs for wall papers. 858
71. Cox, Mrs. Kenyon, New York. Designs for transom and reredos. 852
72. Crownfield, S. L., New York. Design for wall paper. 852
73. Emmet, Lydia F., New Rochelle, N. Y. Design for seal. 852
74. Ferguson, E. Adele, Brooklyn, N. Y. Designs for watches, etc. 852
75. Howell, C. E., New York. Book cover designs. 852
76. Humphrey, Maud, New York. Design for wall paper and frieze. 852
77. Huger, Miss K. M., New York. Designs. 852
78. Joyce, Lillian V., Brooklyn, N. Y. Designs for watch cases, etc. 852
79. Lamb, Mrs. Elia Condie, New York. Designs and cartoons. 852
80. Pyle, Katherine, Wilmington, Del. Book illustration and decorated pages. 852
81. Sherwood, Mrs. Arthur, New York. Designs for wall papers. 852
82. Tiffany Glass and Decorating Co., New York. Designs for glass windows, etc. 852

GROUP 150.

Literature, Books, Libraries, Journalism.

83. Armstrong, Margaret M., New York. Book covers and initial letters. 854
84. Armstrong, Helen M., New York. Calendars and illustrations. 854
85. Eggleston, Allegra, New York. Book illustrations. 854
86. Emmet, Lydia F., New Rochelle, N. Y. Pictures. illustrations, etc. 854
87. Keith, Dora Wheeler, New York. Books and illustrations, etc. 854
88. Morse, Miss Alice, Brooklyn, N. Y. Book covers. 854
89. Nicholls, Rhoda H., New York. Book illustrations. 854
90. Sheldon, M. A., New York. Book covers. 854
91. Sherwood, Mrs. Arthur, New Rochelle, N. Y. Book illustrations, etc. 854
92. Stimers, Miss Julia, New Brighton, N. Y. Specimens of lithography. 854
93. Van Rensselaer, Mrs. J. K., New York. Book cover. 854
94. Walker, Miss M., New York. Illustration. 854
95. Whitman, Sarah W., Boston. Book covers. 854

WOMAN'S BUILDING.

GROUP 151.

Instruments of Precision, Experiment,
Research and Photography.
Photographs.

96. Bessey, Miss, New York. Photo-
graphs of badges. 871

GROUP 152.

Civil Engineering, Public Works, Con-
structive Architecture.

97. Keith, Dora Wheeler, New York.
Design for ceiling. 889
98. Tillinghast, Miss Mary, New York.
Architectural drawings. 889

Keppel Collection of Engravings, Etchings, Etc.

The aim of the present exhibition is to show, so far as space permits, what has been done by women engravers during the last three centuries. It has been gathered together with much care and owes its interest largely to the kindness of several collectors of Europe and America and, in the case of modern work, to the hearty co-operation of the artists themselves.

Owing to the limitations of space it has been found impossible, even were it desirable, to represent all who have of late years, worked with the etching needle, but sufficient is shown to exemplify the schools of France, England and America at their best.

Until comparatively recent years a woman engraver was the exception and though we find scattered through the three hundred years that have elapsed since the birth of the art, a fair number of women who have distinguished themselves in engraving, they are there rather through the force of their own individuality than from any general tendency toward a recognition of the equality of the sexes.

Doubtless strong opposition was at first to be overcome, but prejudice has lessened year by year until now the pictures by women are admitted to our public exhibitions on exactly the same basis as those executed by men, solely on their merits.

It is on this footing that the present exhibition should be judged.

In America not only have women established their right to an equal hearing with their male co-workers in the graphic arts, but in etching they can lay claim to at least three whose rank is of the highest, while in the field of wood engraving such good work has been done that it seems impossible for technical excellence to surpass it.

- | | |
|---|--|
| <p>Ghisi, Diana, Italy, 1535.
Born in Mantua. Her plates date from 1581-1588. Engraved chiefly after Raphael, Tuccari and Giulio Romano. Her father and brother were also engravers.</p> <p>1. The Woman Accused Before Christ. (Line engraving after Giulio Romano. First State.)</p> <p>Marie de Medicis, Queen of France. Born 1573.
Wife of King Henry IV, of France, Regent of France after his death; was afterwards imprisoned by Cardinal Richelieu.</p> <p>2. Bust of a Young Woman. This wood cut is extremely rare.</p> <p>Roghman, Gertrude. Holland, 1590.
Engraved some plates after his father, Roeland Roghman. Executed about twenty plates in all. Died about 1640.</p> <p>3. View of Slotterdyck. (Original etching.)</p> <p>Stella, Claudine. France, 1634.
Daughter of the engraver, Jacob Stella.</p> <p>4. Christ before Pilate. (Line engraving after Nicolas Poussin.)</p> <p>Sirani, Elisabetta. Italy, 1638.
Pupil of her father, Giovanni Sirani. She was poisoned by her servant in 1665, but had already made for herself a famous name.</p> | <p>5. Madonna and Child with an Angel. (Original etching.)</p> <p>Sandart, Anna. Germany, 1658.
Born in Nuremberg, pupil of her father, Jacob von Sandart.</p> <p>6. Line Engraving after Raphael's Fresco in the Farnesina Palace.</p> <p>7. The same after the same.</p> <p>Del Pò, Teresa. Italy about 1660.
Daughter of Pietro del Pò. She painted in oil and in miniature. Engraved so much in the style of her father that it is difficult to distinguish their works. She was a member of the Academy of St. Luke, at Rome, and died at Naples in 1716. She executed about twenty plates.</p> <p>8. Allegory in Honor of Philip IV of Spain. (Original line engraving.)</p> <p>Deveux, Therèse. France, about 1720.
Worked during the middle of the eighteenth century.</p> <p>9. L'Abbé de la Caille. (After M^{lle} Le Jeuneus.)</p> <p>Kauffman, Angelica. Switzerland, 1741.
Worked chiefly in England, where she was highly esteemed, and upon the founding of the Royal Academy in 1768 was elected one of the original thirty-six members. Died in 1807. Many of Bartolozzi's best plates were after her paintings. They were much esteemed by other engravers also.</p> |
|---|--|

KEPPEL COLLECTION OF ENGRAVINGS, ETCHINGS, ETC.

10. Hope. (Original etching.)
11. Girl Leaning Against a Rock. (Original etching finished in aquatint.)
12. Girl Plaiting Her Hair. (Original etching finished in aquatint.)
13. Venus with the Corpse of Adonis. (Etching finished in aquatint after Annibal Carracci.)

Prestel, Catharina. Germany, 1744.

She was the pupil and afterwards the wife of Johann Amadeus Prestel, whom she aided in some of his best plates, especially in landscape. In 1786 she separated from him and came to London, where she died in 1794. She executed 73 plates after Italian, Dutch and German masters.

14. Landscape with Castle. (Aquatint after Teners the Older.)
15. View in Switzerland. (Aquatint after J. Wynants.)

Cosway, Maria. England, 1745.

Her husband was Richard Cosway, the famous English miniature painter. Her maiden name was Hadfield. She was of Irish parentage, but was born at Leghorn.

16. Portrait of herself and her husband. (Original etching.)
17. Grief. (Etching after Richard Cosway.)

Deny, Jeanne. France, about 1750.

She, with her brother, executed a series of illustrations to the works of Voltaire and Lafontaine.

18. A Ruined Tower. (Original etching, dated 1770.)
19. Allegorical Subject. (Etching after Monnet.)

Ellis, Elizabeth. England about 1750.
Sister-in-law of William Woollett, the famous landscape engraver.

20. A Farm-yard. (Etching after William Woollett.)

Watson, Caroline. England, about 1760.

Worked both in mezzotint and stipple. Pupil of her father, James Watson. In 1785 she was appointed engraver Royal by Queen Caroline, and died June 10, 1814.

21. Madonna and Child. (Stipple engraving after Raphael. Proof. From the Earl of Hardwicke's collection.)
22. Infancy of Shakespere. (Stipple engraving after Sir Joshua Reynolds.)
23. Portrait of William Woollett. (Stipple engraving after Gilbert Stuart.) Proof.

Carey, Regine. France, about 1770.

24. Landscape with Cattle. (Aquatint printed in colors after Rosa di Tivoli.)

Holbein, Theresa. Germany, about 1790.

Born in Gratz. Removed in 1814 to Vienna. She engraved about 30 plates, embracing both original landscapes and copies after various masters.

25. Landscape with a River. (Original etching.)

Riollet, Mlle. C. France, 1798.

Married Beaunart, the engraver.

26. La Fecondite. (Line engraving after Reubens.)

- 26a. The Rich Man and Lazarus. (Line engraving after Teniers.) -
Piotti, Caterina. Italy, 1800.

27. Queen Semiramis. (Line engraving after Guercino.) This beautiful engraving won the gold medal of the Academy of Milan in 1830.

Bozzolini, Matilde. Italy, 1811.

Born at Florence, engraved only a few plates.

28. Portrait of Gaetano Filangieri. (Line engraving after Tofanelli.)
Turner, Mrs. Dawson. England, about 1820.

29. Portrait of Granville Sharpe. (Original etching.)

Perfetti, Elena. Italy, about 1830.

Wife of the engraver, Perfetti.

30. Hope. (Line engraving after Carlo Dolci.)

31. The Last Judgment. (Line engraving after Fra Angelico.)

Lady Hume. England, about 1830.

Wife of Sir Abraham Hume.

32. Rembrandt's Mill. Maberly pronounces this to be a wonderfully fine copy of Rembrandt's famous etching.
O'Connell, Madame F. Germany, 1835.
Her work was done in Paris.

33. A Cavalier. Period of Louis XIII. (Original etching.)

ETCHINGS AND DRY POINTS BY ARTISTS NOW LIVING.

FRENCH SCHOOL.

Abbema, Mlle. Louise.

34. Portrait of the painter, Carolus Duran. (Original dry point.)

35. Portrait of Charles Garnier, Architect of the Paris Opera House. (Original dry point.)

Paulier, Madame C.

36. Head of a Woman. (Etching after J. J. Henner.)

37. Woman Reclining. (Etching after J. J. Henner.)

38. Saint Sebastian. (Etching after J. J. Henner.)

39. Lady Hamilton. (Etching after Geo Romney.)

Formstecher, Mlle. Helene.

40. Hunting the Hare. (Etching after Jules Gelibert.)

41. High and Dry, Vessels at Low Tide.

Bracquemond, Madam Marie.

Painter and etcher, wife of the eminent etcher, Felix Bracquemond.

42. Portrait of Madam Beraldi. (Original etching.)

43. Portrait of Monsieur Geffroy. (Original etching.)

D'Abbeville, M'lle Isabelle.

Pupil of Maxime Lalaune.

44. Head with a Fur Cap. (Etching after Bosso.)

Testard, M'lle Pauline.

45. Landscape. (Etching after Corot.)

46. Landscape. (Etching after Corot.)

Teyssonnières, M'lle Mathilde (Madam Bertrand).

Daughter and pupil of Pierre Teyssonnières, the famous etcher.

WOMAN'S BUILDING.

47. A Reverie. (Etching after Feyen Perrin.) This plate won a diploma of honorable mention at the Paris Salon and was also shown at the Exposition.
48. The Haymaker. (Etching after Feyen Perrin.)
Poynot, M'lle Gabrielle.
 A pupil of the famous etcher, Waltner; has executed a number of plates after Laurens, Benner, Henner and others.
49. A Young Creole. (Etching after Henner.)

LITHOGRAPHS BY ARTISTS NOW LIVING. FRENCH SCHOOL.

- Bonheur, M'lle Rosa.**
 Born 1822. The eminent painter of animals.
50. Head of a Lioness. (Original lithograph with fac-simile of a letter by the artist.)
51. Head of a Young Bull. (Original lithograph.)
52. Spanish Cattle. (Original lithograph; early proof bearing the artist's written directions to her printer.)

ETCHINGS AND DRY POINTS BY ARTISTS NOW LIVING. ENGLISH SCHOOL.

- Nichols, Miss C. M.**
 Fellow of the Royal Society of Painter-Etchers, London. The paintings of Miss Catherine Nichols are well known to those who visit the exhibitions at the Royal Academy, London. Her plates are done in pure dry point and are vigorous presentations of English landscape or architecture. She is also a writer of high merit.
53. Amidst the Pines. (Original dry point.)
54. The Stranger's Hall, Norwich, England. (Original dry point.)
55. Fir Trees, Crown Point. (Original dry point.)
56. "O'er Moor and Fen." (Original dry point.)
Gleichen, The Countess Feodora.
 A relative by marriage of Queen Victoria.
57. In the Church. (Original etching.)
58. Peasant Woman. (Original etching.)
Halle, Miss Elinor.
59. A Woodcutter. (Original etching.)
60. The Shepherds. (Original etching.)
Hamilton, Mrs. L. Vereker.
61. The Harvesters. (Original etching.)
62. Study of a Peasant Girl's Head. (Original etching.)
Harrison, Miss S. C.
63. Study of a Head. (Original etching.)
Kemp, Miss Emily G.
64. Study After Vandyck. (Etching.)
65. The Coming Storm. (Original etching.)
Roberts, Miss K. May.
66. Portrait of a Man. (Original etching.)
67. Prayer for the Dead. (Original etching.)
Thompson, Miss L. Beatrice.
68. Portrait of an Old Man. (Original etching.)
69. A Shrine in Brittany. (Original etching.)

AMERICAN SCHOOL.

- Canby, Miss Louise Prescott, Philadelphia.**
70. Sunset. (Original etching.)
71. In the Harbor of Oswego. (Original etching.)
Cassatt, Miss Mary.
 Born in Pittsburg, Pa., resides in Paris. One of the two large fresco paintings which decorate the Woman's Building is the work of Miss Cassatt.
72. A Lady at a Tea Table. (Original dry point.)
73. Portrait of a Lady. (Original dry point.)
74. A French Peasant Woman with a Child (Original dry point.)
75. A French Peasant Woman with a Parrot. (Original dry point.)
Clements, Miss Gabrielle D., Philadelphia.
76. Mount St. Michel. (Original etching.)
77. The Way of St. Francis, Chartres. (Original etching.)
Dillaye, Miss Blanche, Philadelphia.
78. Mist on the Cornish Coast. (Original etching.)
79. Early Morning, Dordrecht Canal. (Original etching.)
80. Sardine Wharf, Eastport. (Original etching.)
Farrell, Miss K. Levin, Philadelphia.
81. South Dartmouth Wharf. (Original etching.)
82. Springtime of Love. (Etching after Paul Thumann.)
Ferris, Miss May E., Philadelphia.
83. Waiting. (Original etching.)
Getchell, Mrs. Edith Loring, Worcester, Mass.
84. Moonrise. (Etching after Ross Turner.)
85. Old South Church. (Original etching.)
86. The Road to the Beach. (Original etching.)
- "Another attractive work is 'The Road to the Beach,' at Nonquit, Massachusetts, which was exhibited at the Paris Salon. It is very simple in theme—merely a stretch of low coast land with a few scattered shrubs and a wide road stretching away toward the slightly-lifted horizon line. But a great deal has been told for this simplicity. The very spirit of such a scene is caught and given. Even without the title we should know that there was salt in the air and the sea at the end of the road." (Mrs. Schuyler van Rensselaer.)
- Hale, Miss E. D., Philadelphia.**
87. Study of a Head. (Original dry point.)
88. Study of a Head. (Original dry point.)
Lloyd, Miss H. H., Philadelphia.
89. A River-Meadow. (Original etching.)
90. The River. (Original etching.)
Matlack, Miss E., Philadelphia.
91. A Winter Morning. (Original etching.)
92. A New England Orchard. (Original etching.)
McLaughlin, Miss M. Louise, Cincinnati.
93. Woodland Scene. (Original etching.)
94. Head of a Girl. (Original dry point.)

KEPPEL COLLECTION OF ENGRAVINGS, ETCHINGS, ETC.

Merritt, Miss Anna Lee.

"Her work is essentially English in flavor, delicate and pleasing."—Mrs. Schuyler van Rensselaer, in *American Etchers*.

95. Ophelia. (Original etching.)

Moran, Mrs Emily K., Philadelphia.

96. Long Beach, York Harbor. (Original etching.)

97. The Road to the Farm. (Original etching.)

Moran, Mrs. Mary Nimmo, New York.

"Mrs. Thomas Moran is as yet the only woman who is a member of the New York Etching Club, and no name stands higher on its roll. Her work would never reveal her sex. It is, above all things, direct, emphatic, bold—exceeding in these qualities, perhaps, that of any of her male co-workers."—*The Century Magazine*. "The Goose Pond" was the etching which procured Mrs. Moran's election to membership in the London Royal Society of Painter-Etchers.

98. Summer at East Hampton, Long Island. (Original etching.)

99. The Goose Pond, Long Island. (Original etching.)

Natt, Miss Phœbe Davis, Philadelphia.

100. Dona Nobis Pacem. (Original etching.)

101. The Child Musician. (Original etching.)

Oakford, Miss Ellen, Englewood, N. J.

102. Twilight. (Original etching.)

103. Yale Campus, Winter. (Original etching.)

Osborne, Miss H. Frances, Salem, Mass.

104. Chestnut Street, Salem, Mass. (Original etching.)

105. Solitude. (Original etching.)

106. View from Derby Wharf, Salem. (Original etching.)

Penman, Miss Edith, New York.

107. An Orchard Pasture. (Original etching.)

108. Winter. (Original etching.)

Taylor, Miss M. M., Philadelphia.

109. On Nantucket Island. (Original etching.)

110. Winter. (Original etching.)

111. The Hazy Mist. (Original etching.)

WOOD ENGRAVINGS BY CONTEMPORARY AMERICAN ARTISTS.

Beyer, Miss Clara, Brooklyn, N. Y.

112. Landscape. (After George Inness.)

113. The Knitter. (After Henri Lerolle.)

Comstock, Mrs. Anna B.

The Cherry Blossoms Give a High Tea. (Original.)

114. Butterfly. (Original.)

115. Butterflies. (Original.)

116. Butterflies. (Original.)

117. Butterflies. (Original.)

Cooper, Miss Edith, New York.

Member of the Society of American Wood Engravers, to which was awarded the gold medal at the Paris Exposition for excellence of work exhibited.

118. White Birches. (After Miller.)

119. Springtime of Love. (After Paul Thumann.)

120. Garrison Defilant avec les Honeurs de Guerre-Disle, 1708. (After Gow.) Done for General Hawkins' report of the American Section of the Paris Exposition.

Curtis, Miss K.R., Bergen Point, N. J.

121. Black to Play. (After R. M.)

122. A Fair Swede. (Original.)

123. An English Pasture. (After T. Baker.)

124. Autumn Leaves. (After Vicat Coles.)

Naylor, Miss J. A., New York.

125. Winchester Cathedral—the Choir and Presbytery. (After Joseph Pennell.)

126. Zaltieri, Venice. (After Otto Bacher.)

Naylor, Miss O., New York.

127. Sheep. (After Doring.)

128. Winchester Cathedral—South aisle of retro choir. (After Joseph Pennell.)

Powell, Miss C. A., Trenton, N. J.

Member of the Society of American Wood Engravers.

129. Gorilla. (After Frémiet.)

130. A Bit of Sunshine. (Original.)

131. The Resurrection. (After John La Farge.)

Underhill, Miss M. J., New Rochelle, N. Y.

132. Lord Baltimore. (After an engraving by Abraham Blothing.)

133. Old Houses on the Liffy. (After Joseph Pennell.)

Waldeyer, Mrs. A., New York.

134. Dance of the Serpent Stars. (After Taber.)

135. Tolstoi at Home. (After Repin.)

136. Japanese Girl. (After John La Farge.)

137. A Young Artist. (After A. Kobbé.)

138. Interior of St. Peters, Rome.

F. Hopkinson Smith.)

List of Societies in the Room for Organizations:

- Association for Advancement of Women, Boston.
 Associated Collegiate Alumnae, Washington, D. C.
 American Society of Authors, Brooklyn, N. Y.
 Chicago Woman's Club, Chicago.
 Columbian Ass'n of Housekeepers, Chicago.
 Catholic Benevolent Society, Salamanca, N. Y.
 Emma Willard Pioneer Seminary, Ill.
 Federation of Clubs, Orange, N. J.
 Girls' Mutual Benefit Club, Chicago.
 Girls' Friendly Society, New York.
 Gunter Indian School, India.
 Home of Our Merciful Saviour, Philadelphia.
 Helmuth College, London, Ont.
 Home of Our Merciful Saviour for Crippled Children, Philadelphia.
 International Committee Young Women's Christian Ass'n, Chicago.
 International Board Young Woman's Christian Ass'n, St. Louis.
 Industrial Foreign Missions, M. E. Church, Evanston, Ill.
 Industrial College of Mississippi, Columbus, Miss.
 Kings Daughters, New York.
 Lasell Seminary, Auburndale, Mass.
 Ladies' Hermitage Ass'n, Nashville, Tenn.
 L'Union des Femmes de France, Paris, France.
 Mary Washington Statue, Chicago.
 Monticello Seminary, Godfrey, Ill.
 National Science Club, Oberlin, Ohio.
 National Council of Women, Indianapolis, Ind.
 National Deaconesses Conference, Chicago.
 New York Ass'n of Working Girls, New York.
 Nebraska Ceramic Club, Omaha, Neb.
 Non-Partisan Woman's Christian Ass'n, Washington, D. C.
 Order of the Eastern Star, Chicago.
 Promotion of Physical Culture, Chicago.
 P. E. O. Sisterhood, Nelson, Neb.
 Shut-in Society, Millersville, Pa.
 South End Flower Mission, Chicago.
 The Needlework Guild, New York.
 Unitarian Board of Missions, Chicago.
 Woman's Columbian Club, Wichita, Kas.
 Woman's Education and Industrial Ass'n, Boston.
 Woman's Branch of the Congress Auxiliaries, Chicago.
 Women's Christian Temperance Union, Chicago.
 Woman's Board of Missions, Congregational, Boston.
 Woman's National Indian Ass'n, Philadelphia.
 Woman's Board of the Interior, Chicago.
 Woman's Presbyterian Board of Missions, Chicago.
 Woman's National Press Federation, Washington, D. C.
 Woman's Home Missions, M. E. Church, Evanston, Ill.
 Woman's Work for Woman, Chicago.
 Woman's Club of Milwaukee, Wis.
 Woman's Relief Corps, Kansas.

CAPE OF GOOD HOPE.

DEPT. B.—HORTICULTURE.

GROUP 22.

1. Wild grasses. 165
2. Pressed wild flowers on plates; water colors of Cape Flora. 169

DEPT. H.—MANUFACTURES.

GROUP 90.

3. Table. 566

GROUP 91.

4. Kaffir pottery and native dishes. 574

GROUP 93.

5. Brass repoussé bellows, blotter and brush backs. 585

GROUP 96.

6. Piano back. 598

GROUP 97.

7. Silver filigree work. 607

GROUP 98.

8. Kaffir necklaces and bangles; gold filigree work. 612

GROUP 100.

9. Silk handkerchiefs. 630

GROUP 104.

10. Figures of Bushmen in full dress. Kaffir mantle, apron and belts; Mosuto woman's dress. 653

11. Malay hat. 654
12. Malay wooden shoes. 656

GROUP 105.

13. Wild skin rugs and sleeping mats. 661
14. Kaffir skin caps. 662

GROUP 106.

15. Embroidery, pin-cushion, table-cloth, doilies and Kaffir handkerchiefs. 665
16. Oriental embroidery. 669
17. Framed screen tapestry. 670

GROUP 108.

18. Fish scale, floral, leather and Kaffir baskets. 680
19. Kaffir sticks. 681

GROUP 110.

20. Fish scale work, wall brackets, tea cozy, painted ostrich eggs, work by Basuto-land children, Kaffir feather curios and beadwork. 695

GROUP 111.

21. Painted leather screens. 705

GROUP 115.

22. Kaffir brooms. 730

DEPT. L.—LIBERAL ARTS.

GROUP 158.

23. Kaffir musical instruments.

GREAT BRITAIN.

GROUP 172.

WOMAN'S WORK.

Education.

President: Mrs. Fawcett.

Misses Buss, Julia Cock, Davenport, Hill, Gurney, Todd, Kingsley, F. Stevenson and L. Stevenson.

ENGLAND.

Colleges.

1. Bedford College, London. Views of college and students acting.
2. Girton College, Cambridge. Architect's drawing and views; Anglo-Saxon pottery found in the garden at Girton.
3. Lady Margaret Hall, Oxford. Group of students.
4. Newnham College, Cambridge. Views of buildings, students' rooms, students, and staff.
5. Royal Holloway College, Egham, Surrey. Views of the buildings.
6. Somerville Hall, Oxford. Views of buildings, rooms and students.
7. University College, Nottingham.
8. Westfield College, London.

Medical Education.

9. Clapham Maternity Hospital. Photograph of ward.
10. London School of Medicine for Women. Groups of students.
11. New Hospital for Women. Drawings of college; photographs of medical staff.
12. Royal Free Hospital. Photographs of building.

Schools.

13. Ladies' College, Cheltenham. Photographs; college magazines.
14. North London Collegiate School for Girls. Views of buildings, magazines, reports, etc.
15. Princess Helena College, Ealing, London. Views of buildings and students.

Girls' Public Day School Company, Ltd.

16. Blackheath High School. Photographs, specimens of work, etc.
17. Harrow Music School. Examination papers and publications.
18. Sheffield High School. Drawings, specimens of work, school magazines, etc.
19. York High School. Photographs of pupils acting, drawings and magazines.

Inventions Bearing on Education.

20. Mrs. Ayrton's line-divider; Miss A. Gregory's geodescope; Mrs. Mitford's puzzle alphabet; Miss Kerr's skeleton celestial globe; Miss Huddleston's "Theoria Harmonica;" Miss Linscott's invention for teaching notation; Miss A.

Osborne Moore's philograph; Miss Constance Barnard's kindergarten loom; Miss Constance Barnard's script letters; Miss Lambert's paragon needlework apparatus; Mrs. Jessie Farwell's geographical cards; Miss Croad's arithmetron.

Portraits.

21. Tripos Students, Newnham College, Cambridge; graduates of London University; pupils of North London Collegiate School; first woman M. A. of London University and her sister; first nine women graduates of the Royal University, Ireland; graduates of London University; North London Collegiate Schools for Girls; graduates of London University; Ladies' College, Cheltenham, etc.

IRELAND.

Official Educational Systems for Both Sexes.

22. Report and rules of Board of National Education; report of the Board of Intermediate Education; report of the Royal University of Ireland.

Colleges Founded by Men, to Which Women Have Been from Time to Time Admitted.

23. Queen's College, Belfast. Royal College of Surgeons, Dublin; Royal College of Physicians; Royal College of Science, Dublin; Magee College, Londonderry; Methodist College, and the McArthur Hall for Women, Belfast.

Colleges Founded by Women, for Women.

24. Alexandra College, Dublin. Portrait of founder; view of college; calendars; historical sketch.
25. Victoria College, Belfast. Portrait of founder; photograph of college, students and teachers; magazine; prospectus, etc.

Schools Founded and Carried On by Women, Giving Advanced Education.

26. Ladies' Collegiate School, Londonderry. Strand House school, Londonderry; Alexandra School, Carrickfergus, photographic group of pupils and teachers and reports of Alexandra School, Carrickfergus, and sketch of the Alexandra School, Dublin, in connection with Alexandra College.
27. School reports from high school for girls, Cork; Wellington Park, Belfast; Seatown Place, Dundalk; Portadown; Rutland Place, Dublin; Moravian Schools, Gracehill; Cookstown; Coleraine; Dunganannon; Russell street, Armagh; Princess Gardens, Belfast; Oriel College, University Square; Osborne Park; Sullivan Schools, Holywood; Intermediate School, Newry, and Warrenpoint.

WOMAN'S BUILDING.

Special Schools.

28. **Rochelle Schools, Cork.** Photograph of school, historical sketch, etc.

School Belonging to the Society of Friends.

29. **Girls' Advanced School, Mountmellick.** Agricultural School, Brookfield; Brookfield School; Lisburn School; Clergy Daughters' School, Dublin; Female Masonic School, Dublin, and Training College, Dublin.

Miscellaneous.

30. Report of the Irish Schoolmistress' Association for 1890; memorial of the Council of Trinity College, Dublin, and comparative summary of Intermediate Examinations of 1892.

SCOTLAND.

Edinburgh School Board.

31. Photographs of schools; time tables; Edinburgh Royal High School, founded early in the twelfth century; Sciennes Public School; London Street Public School, and Torphelien Street Public School.

Edinburgh Medical Education.

32. **Edinburgh School of Medicine for Women.** Photographs of buildings and students; reports, etc.
33. **Scottish Association for the Medical Education of Women.** Photographs and reports.

Glasgow School Board.

34. Complete plans of school; photographs; prospectuses; reports; maps; drawings illustrative of standard work.

Glasgow Medical Education.

35. **Queen Margaret's College.** Photographs and calendar.

FINE ARTS.

Pictures Sent by Her Majesty and the Royal Family.

36. Six original sketches from nature, contained in one frame, by H. M. the Queen.
37. Views from the Queen's room at Balmoral, in snow, November 12, 1880.
38. View from another window, also at Balmoral, November 18, 1878.
39. Pug belonging to Prince Henry of Battenberg, drawn by the Queen in the railway, June 24, 1886.
40. "Spot," the Queen's fox terrier, January 25, 1891.
41. View at Aix-les-Bains, from Tresserve.
42. View from the Queen's sitting-room at Balmoral in autumn, 1878.
43. Copy in water-colors from an oil painting, size of life, of H. M. the Queen's Munshi and Indian secretary, Abd-ul Karim, 1892, by H. M. the Queen.
44. Two pictures in oil, by H. R. H. Princess Christian of Schleswig-Holstein.

45. Study from nature in water-colors, by H. R. H. Princess Louise (Marchioness of Lorne).

46. A picture by H. R. H. Princess Beatrice (Princess Henry of Battenberg).

47. "Old Sussex College," Mrs. Allingham.

48. "To the Front" (French cavalry leaving a Breton town on declaration of war), Lady Butler.

49. "Hastings," Madame Bodichon (The Founder of Girton).

50. "Portrait of a Baby," Miss Alice Grant.

51. "An English Maiden," Mrs. Jopling-Rowe.

52. "Pallazzo Rezzonice, Regatta Day" (Browning's palace, Venice), Miss Clara Montalba.

53. "A Market Woman, Dortrecht," Miss Hilda Montalba.

54. "On the Riviera," Miss Ellen Montalba.

55. "Dolly's Ball Dress," Mrs. Perugini.

56. "Eurydice Sinking Into Hades," Miss Henrietta Rae.

57. "The End of the Hop-harvest, Kent," Miss Steward Wood.

Handicrafts.

President: Lady Roberts.

Mrs. Jack Johnson, Miss Helen Blackburn, Miss Webster and Miss C. Holden.

58. **H. M. the Queen.** Two napkins made from flax spun by Her Majesty. A hat painted by Her Majesty and given to her granddaughter, Princess Victoria of Schleswig-Holstein.

59. **H. R. H. The Princess of Wales.** Corner chair of carved oak and cut and embossed cowhide.

60. **H. R. H. Princess Helena (Princess Christain of Schleswig-Holstein).** Embroidery on linen; knitted jersey.

61. **H. R. H. Princess Victoria of Wales.** Music stool of carved oak and cut and embossed cowhide.

62. **H. R. H. Princess Maude of Wales.** Stool of carved oak in cut and embossed cowhide.

Bookbinding and Covering.

63. Bayly, Miss Helen. Shakespeare, bound in cut leather.

64. Birkenwith, Miss, London. Books bound and tooled.

65. Brownlow, Mrs. Harry, Cambridge. Embroidered book covers.

66. Firth, Miss Susanna. Books bound in cut and tooled leather.

67. Nichols, Miss. Bindings in various leathers.

68. Noedel, Miss Charlotte, Superintendent of H. R. H. the Princess of Wales' Technical School, Sandringham. Blotter of oak, with panel of cut embossed enameled cowhide over silver.

69. Prideaux, Miss S. T., London. Embroidered velvet and leather bindings.

70. **Royal School of Art Needle Work, London.** Books bound in vellum, illuminated.

Illustrations for Books.

71. Bradley, Miss Gertrude A., Birmingham. Illustrations for fairy tales.

GREAT BRITAIN.

72. Canton, Miss S. R., Bloomsbury. Black and white illustrations; magazine cover.

73. Dicksee, Miss Margaret, Bloomsbury. Black and white illustrations.

74. Greenaway, Miss Kate, London. Four drawings for illustration to book of "Children's Games."

75. Pocock, Miss Julia, London. "Enoch Arden," illustrated.

76. Whipple, Miss Amy, Devonport. Water-color illustrations of Hood's poem, "Flowers."

77. Wyatt, Miss K. M., Bloomsbury. Magazine cover.

Cameos.

78. Astbury, Mrs. W. Spencer, Tunbridge Wells. Female head; portrait of Cardinal Newman.

79. Pocock, Miss Julia, London. Cameo shell; Queen's jubilee coinage.

Carvings in Wood.

80. Barr, Miss Lizzie, East Grinstead. Sideboard, style of reign of James I.

81. Dobhongs, Miss Lucie A., Leeds. Table of Swedish sloyd carving.

82. Eliot, Mrs. C. T., Coventry. Old English eight-day clock.

83. Elont, Miss, Belford. Walnut dresser seventeenth century.

84. Heath, Miss Maud A., Tunbridge. Frames with painting.

85. Packer, Miss Elizabeth, London. Oak columns.

86. Reeks, Miss Maria E., London. Mirror frame, 16th century.

87. Royal Normal College & Academy for the Blind, London. Models in woodwork by the Anglo-American sloyd carvers.

88. Tankerville, Countess of, Belford. Buffet and dresser after the Flemish.

89. Wilkinson, Miss Gladys. Carved and gilt frame.

90. Williams, Miss Constance, London. Oak mirror, 16th century.

In Ivory.

91. Tankerville, Countess of, Belford. Fan handle, plaques for note or card-case.

In Stone.

92. Bonham, Miss Agnes, South Norwood Hill. Photographs of reredos in St. John's church, Norwood, carved by herself.

Chromo Lithography.

93. Chromo-Lithographic Studio, London. Birds, heads, and figure subjects.

Designs.

94. Aumonier, Miss Louise, Ballinger. For wall papers.

95. Betts, Miss Lily M., London. For wall paper, frieze or embroidery.

96. Bradley, Miss Gertrude, Birmingham. Colored, of "Fox and Geese."

97. France, Miss Georgia Cave, Tysley. For wall paper, showing repeats.

98. Gemmell, Miss Mary, London. For wall papers.

99. Murray, Miss E. Emily, London. For china tea service.

100. Murray, Miss Nina, Scarborough. Designs.

101. Parker, Miss Violet M., Edgbaston. For wall paper.

102. Prochantza, Baroness Pauline, Killenny. For frieze.

Etchings and Fashion Plates.

103. Martyn, Miss E. K., London. Illustrations to Christabel.

104. Parker, Miss Violet M., Edgbaston. Finger plates mounted.

105. Piper, Miss Elizabeth, London. "The Chelsea homes of Carlyle, Rosetti, Turner and George Eliot;" "Westminster Abbey;" "The Spinning Wheel."

106. Young, Miss Lilian, London. Fashion drawings in wash and line.

107. Young, Miss Maggie, London. Fashion drawings in wash.

Fan Painting.

108. Arding, Miss Helen, London. Gauze fan leaves.

109. Canton, Miss S. R., Bloomsbury. Fan.

110. Granville, Miss, Biarritz, France. Gauze fan leaves.

111. Horton, Miss G. E., Bloomsbury. Fan.

112. Jay, Miss Isabella, London. Fans copied from Turner's "Caligula Castle and Bridge," and "Approach to Venice."

113. Langford, Miss Alice, Bloomsbury. Watteau fan.

114. Manly, Miss Alice. Fan designed and painted by command of the Queen and presented by her to H. R. H. Princess Beatrice on her marriage.

115. O'Connor, Miss Evelyn, Southsea. Gauze fan.

116. Reid, Miss A. M., London. Fan in Pompeian style.

117. Vasey, Miss Clara, London. Gauze leaf, painted Cupids; fan, "All nations visiting the World's Fair."

Fly Tying.

118. Brocas, Mrs. Letitia, London. Artificial flies.

Gesso Duro.

119. Barker, Miss May, London. Decoration for piano front.

120. Barker, Miss May. Panels for pilasters.

121. Wylie, Mrs. C., London. "Twilight;" "The God of Love."

Glass, Stain and Enameled.

122. Casella, Miss Ella, Kensington. Enameled decanter and glasses.

123. Casella, Miss Nelia, Kensington. Enameled glass jar.

124. Newill, Miss Mary, Edgbaston. Cartoons for stained glass windows.

Goldsmiths' Work.

125. Brock-Hollinshead, Miss, Seaton. Tiaras, necklaces, hairpins, and pins of filigree.

126. Newman, Mrs., London. Necklaces, brooches, bracelets of gold, with enamel and precious stones.

WOMAN'S BUILDING.

127. Chart of Women's Progress in the British Isles, from 1857 to 1892 sent by the National Society for Women's Suffrage, London.

Illuminations.

128. Channer, Miss C. A., London. Triptych of MS., illuminated.
 129. Lynch, Miss Agnes, London. Illuminations on vellum.

Handspun Linen.

130. Langdale Linen Industry, Langdale. Specimens of handspun and handwoven linen.

Leather Work.

131. Aluta, London. Embossed leather card and letter cases.
 132. Bartlett, Miss, Liverpool. Blotting book and writing case in embossed leather.
 133. Bassett, Miss M. A., Leighton Buzzard. Leather work.
 134. Bayly, Miss Helen, Florence, Italy. Blotter, leather wallet and card cases.
 135. Bowley, Mrs. Richard, London. Blotter and ladies' card-case in leather work.
 136. Christie, Miss M., London. Embossed leather blotting book.
 137. Firth, Miss Susannah, Kirby Lonsdale. Blotting book in embossed leather.
 138. McClure, Mrs. Edmund, London. Ancient Cromwellian chair re-covered.
 139. Ottman, Miss, Stonehaven, N. B. Game book with coat-of-arms.
 140. Smith, Miss Sophia, Kirby Lonsdale. Screen panel.
 141. Wetton, Miss Edith, London. Chair covered.
 142. Wheatley, Dorothy Helena, London. Hall arm chair of embossed leather.

Mediums for Artists.

143. Turck, Miss E., London. Specimens of work done with Florentine tapestry and other mediums; Cheval screen with panels after an old tapestry.

Marqueterie.

144. Malet, Miss Mabel W., London. Writing set, boxes and photograph frames.
 145. Working Ladies' Guild, London. Photograph frames, table, writing-desk, screen, etc.

Modeling.

146. Bradley, Miss Gertrude M., Birmingham. Panel illustrating "The Shoemaker and the Elves."
 147. Brown, Miss Kate L., Birmingham. Designs for panels.
 148. Canton, Miss S. R. Wax figure, "Fairy Godmother."
 149. Casella, Misses Ella & Nelia, London. Colored wax bas-reliefs.
 150. France, Miss Georgie Cave, Tysley. Panel and models for repousse silver work.
 151. Giles, Miss Margaret, London. Design for plaster frieze "Floreat Flora."
 152. Quesne Miss, Bloomsbury. Dancing figures.

Mosaics.

153. Hodge, Miss Alma, London. Mosaics. Miniatures.

154. Grosvenor, Hon. Mrs. Norman, London. Case of miniatures.
 155. Hamley, Miss Barbara M. Case of miniatures.
 156. Harbutt, Mrs. Cambridge, Bath. Case of miniatures.

Painting on China.

157. Beane, Miss Elizabeth, Camberwell. Plaque, Royal arms of England.
 158. Butterton, Miss Mary, London. Plaque (flowers).
 159. Goodwin, Miss Ada E., Derby. Plaque of Roman designs.
 160. Harbutt, Mrs. Cambridge, Bath. Paintings on china.
 161. Harrison, Miss Emily. A Florentine poem.
 162. Lewis, Miss Florence, London. Desert service (Scotch scenes and flowers).
 163. Sansom, Miss Nellie, London. "Le Reveil;" a portrait; "Margaret."
 164. Thatcher, Miss Euphemia, London. Panel (flowers).
 165. Williamson, Mrs., London. Plaque ("Tears").

On Panels and Screens.

166. Elont, Miss, Belford. Screen, old Watteau pattern.
 167. Spiers, Miss Charlotte, London. Panel painted tulips.
 168. Tankerville, Countess of, Belford. Screen, old Watteau pattern.
 169. Woolhouse, Miss Margaret, London. Screen with painted panels.

Patented Inventions.

170. Barron, Miss M. A., East Moulsey. Collapsible coal scuttle; combined dress stand and fire-escape.
 171. Brown, Miss Mary, London. Portable washing copper.
 172. Calverley, Mrs., Bewicke, London. Music folio and stand.
 173. Claxton, Mrs. M. A., New Brighton. Combined table and book rack.
 174. Dale, Mrs. M. A., Richmond. Folding mail-cart.
 175. Garwood, Mrs. Invention to facilitate pouring from bottles.
 176. Gladstone, Mrs. M. C., Bury St. Edmunds. Combined traveling trunk and wardrobe.
 177. Grimes, Mrs. E., North Walsham. Protectors for fingers when sewing.
 178. Hungerford, Miss M. S., Clonekilty, Ireland. Boot and gaiters, showing new method of lacing.
 179. Impsey-Lovibond, Miss M. A., Ardleigh. Combined sealing wax holder and seal.
 180. Jones, Mrs. S. E., Bangor, Wales. Hygienic egg boiler.
 181. Kesteven, Mrs., Hampton Wick. Improved carving fork.
 182. Mackie, Mrs., London. Clothes washer.
 183. Malcolmson, Mrs. C. A., East Barnet. Expandible umbrella holder.

GREAT BRITAIN.

184. McCleverty, Mrs., Newnham-on-Severn. Combination skirt stand and table.

185. Parnell, Mrs., Barnston, Wallington. Drawings of inventions for extracting gold from base metal.

186. Peckover, Miss, London. Sanitary sink basket.

187. Philipps, Mrs. M. D., London. Ear trumpet.

188. Seaton, Miss R., Sunbury-on-Thames. Cleats for holding ends of threads.

189. Stephenson, Miss R., London. Knee music stand.

190. Symonds, Mrs. S., Guernsey, I. M. Adjustable millinery stand.

191. Tenison, Mrs. F., London. Appliance for lifting hot plates.

192. Turk, Miss D. E., London. Specimens of painting on textiles.

Plan Tracing.

193. Long, Miss E. T., London. Specimens of plan tracing.

Photography.

194. Browne, Miss Frances, London. Portraits in photographic, sepia and Bartolozzi tint, and black and white.

195. Shand, Miss Alice M., London. "Rest."

Printing.

196. Women's Printing Society, Ltd., London. Specimens of type setting.

Pyrography or Poker Work.

197. Hope-Shorroch, Mrs. Samuel, Darwen. Three panels; photo frame, original design.

198. Working Ladies' Guild, London. Bureau, grotesque design; chest; folding table.

Repousse Work.

199. Bewicke, Mrs Calverley, London. Worked silver book cover; screen in pierced brass and copper with poker worked back.

200. Bray, Miss Laura, Shere. Plaque, "Lords and Ladies."

201. Brown, Miss Charlotte, Tunbridge Wells. Pair of bellows, brush and tray.

202. Evans, Miss Ada M., Witley. Brass tray, alms dish.

203. Mills, Miss Clara, Birmingham. Pair of bellows.

204. Rowley, Mrs., London. Silver sconces.

205. Walker, Miss Lillian, Birmingham. Bookcover and salver.

Sculpture in Marble, Terra Cotta, etc.

206. Bonham, Miss Agnes, South Norwood Hill. Photograph of reredos, in St. John's church, Norwood, carved by herself.

207. Ferguson, Miss, London. Marble bust, "Dorthea;" stone panel; marble column.

208. Moore, Miss Esther M., London. Bust in terra-cotta.

Straw-Plaiting and Basket Work.

209. Mansfield Girls' Institute, London. Baskets.

210. Wood, Miss G., Aldbury. Baskets.

Tiles.

211. Babb, Miss E. Charlotte, London. Enamel tile painting; angel.

212. Lewis, Miss E., London. Underglaze tile, frame.

Technical Education.

213. Technical Education for Women, London. Photographs of classes, certificates, cooking recipes, books, plans, manual and system of technical education in cookery, household sewing, home dress cutting and laundry work.

Upholstery.

214. Garrett, Miss Rhoda M., London. Hand-made carpet.

215. Malet, Miss Ethel, London. Coffershaped box.

216. Royal School of Art Needlework, London. Footstools; old Cromwellian chair; box, casket, etc.

Vernis-Martin.

217. Watson, Mrs. Douglas, London. Glove-box and handkerchief-box.

Wood-Engraving.

218. Blackburn, Miss Helen, London. Engraved wood block.

219. Society for Promoting the Employment of Women, London. Engravings of women.

Lace.

President: Duchess of Abercorn.

Lady Clinton, Lady Ernestine Edgecumbe, Lady Susan Fortescue, Lady Iddlesleigh, Lady Kenmare, Lady Kenaway, Lady Susan Morley, Hon. Mrs. Marker, Hon. Mrs. Peek; Mrs. Bruce Clarke, Mrs Alfred Morrison, Mrs. Reeve and Miss Constance Hargrove.

English Hand-Made.

220. Bedfordshire. Hand-made pillow lace and Bedford lace.

221. Buckinghamshire. Black silk fan cover and edging, narrow baby lace, white edging, white insertion, handkerchief border and Maltese and old Buckinghamshire lace collected by Lady Buckinghamshire's Committee.

222. Devonshire. Honiton point fichu, handkerchief and fans with net filling, collected by Lady Iddlesleigh's Committee.

223. Handkerchiefs and lappets in Honiton guipure, trimming and flounces in Honiton point (Miss Radford, Sidmouth).

224. Specimens of Honiton guipure of various periods, to give idea of the alterations in style and workmanship in the last 100 years. (Mrs. Fowler Honiton.)

225. Specimens sent by Mrs. Herbert.

226. Specimens of reproductions of Italian laces from Beer (Lady Trevelyan).

227. Isle of Wight. Harriet Eldridge, Niton. Lace shawls, etc.

228. Northamptonshire. Laces (L. Stanton, Maidford).

Irish.

229. Lindsay, B. Applique, Royal Irish guipure, tambour, tatting, hard and soft crochet, Irish point and antique point laces.

WOMAN'S BUILDING.

Literature.

President: Mrs. Gordon.

Mrs. Humphrey Ward, Mrs. Clifford, Mrs. Green, Miss Kingsley and Miss Gayford.

Publications by the English Royal Family.

230. Old and rare books by Dame Juliana Berners, Dame Gertrude More, Lady Packington, Mary Astell, Mrs. Latter, Mrs. Pilkington, Lady Morgan and O. Moreland.

231. Novels by 70 women authors.

232. Poetry by 34 women authors.

233. Juvenile books by 33 women authors.

234. Historical, biographical and miscellaneous works by 122 women authors.

235. Scientific and miscellaneous works by 27 women authors.

236. Pamphlets by 3 women authors.

237. Travels by 23 women authors.

238. Music by 9 women authors.

Needlework.

Presidents: Lady Henry Grosvenor and Lady Amherst of Hackney.

239. Allote, Miss L., Alford. Plush border, worked flowers.

240. Allsop, A. G., Manchester. Bedspread, art embroidery.

241. Anderson, Mary E., Grantham. D'oyleys, netting on linen.

242. Batt, Miss A., Witney. Embroidered baby shoes.

243. Bavin & Ormiston, Reading. Sofa cushion, stole.

244. Benn, Mrs., Windermere. Cushion cover.

245. Birkett, Miss, Windermere. Table center.

246. Birkett, Miss Jean, Windermere. Chair back.

247. Bolton, Mrs., Funchas, Isle of Madeira. Oriental table cloth.

248. Boxwell, Miss, London. Handkerchief sachet, crepe work.

249. Boxwell, Miss E., London. Cushion cover, copied from dress worn by aunt of Sir Walter Scott.

250. Brett-Jeffares, Miss L. W., Wexford, Ireland. Mountmelick quilt.

251. Brown, Miss C. M., Malvern. Cushion cover.

252. Buckle, Miss M., London. Cottage piano front.

253. Childs, Miss Amy, Wisbech. Baby robe.

254. Clarke, Miss M. A., Manchester. Embroidered mantel border.

255. Cope, Mrs., London. Copy Munich book cover, 14th century.

256. Courtenay, Mrs. S. C. London. Table center.

257. Crosthwait, Mrs. E., Funchas, Isle of Madeira. Cushion, panel of screen.

258. Davidson, Miss H. A., Castle Town, Isle of Man. Copy of old prayer-book cover.

259. Digby, Miss, London. Banner, Saint Cecilia.

260. Dillon, Mrs., Frome. Art embroidery.

261. Dixon, Miss J., Harrogate. Table center.

262. Dixon, Miss J. M., Harrogate. Portiere.

263. Elles, Miss M. C., Wimbledon. Embroidery.

264. Erskine, Mrs. Z., Warminster. Curtain, old design.

265. Ffennell, Miss, London. Embroidery and needle work.

266. Flegg, Miss C. M., King's Lynn. Nightdress; netted d'oyleys.

267. Froud, Miss M., Bournemouth. Silk pulpit hanging.

268. Garde, Miss H. M., Cheyne, Ireland. Feather sprays.

269. Gardner, Miss E. M., Ilfracombe. British moths; worked silks.

270. Garnett, Miss A., Windermere. Cushion cover; tea cloth.

271. Garnett, Miss W., Windermere. Mantel cloth.

272. Goslin, Miss, London. Tablecloth, crochet border.

273. Gowan, Miss, London. Cushion, photo-screen and mirror frame designed by H. R. H. Princess Louise; tablecloth; linen, etc.

274. Green, Miss Annie, Dewsbury. Eis wool shawl.

275. Hainsworth, Miss C. D., Harrogate. Nightdress, sachet and brush bag.

276. Halsham, Mrs. L., Leeds. Shepherd and sheep worked by Lady C. T. Clive, governess to H. M. the Queen.

277. Harris, Miss R., Ealing. Afternoon tea cloth.

278. Hayden, Mrs. W., Whitland, South Wales. Embroidered quilt; nightdress bags.

279. Henry, Miss J., Portobello. Highland stockings.

280. Herbert, Miss, Wadhurst. Knitted pincushion.

281. Hinton, Miss L., The Til, Maderia. Linen sofa back.

282. Holiday, Mrs. C., London. Embroidered portiere.

283. Huxley, Mrs. M., Chester. Virgin and Child and Good Shepherd, embroidered.

284. Innes, Mrs. Mitchell, Frome. Border for court train.

285. Irish Women's Work Society, Hollyrood, Ireland. Quilts; sheet and pillow shams; shamrock table center.

286. Jameson, Miss M. A., Kendal. Child's pinafore.

287. Kendall, Miss A. J., Penzance. Embroidered handkerchief.

288. Kennard, Miss, Blandford. Embroidered sofa cushion.

289. Kent, Miss, Salisbury. Design for altar frontal.

290. Keown, Miss, Coleraine, Ireland. Silk screen panel.

291. Kidd, Miss M. M., Perth. Knitted stockings.

292. Knight, Miss M., Chelsea. Patchwork scripture text quilt.

293. Lea, Mrs., Urmston. Linen photo frame.

294. Lucas, Miss A., Hutchin. Altar superfrontals; sofa back.

295. Macgregor, Miss I., London. Needlework done at widows' industrial class at Amritsar, Peshawur.

GREAT BRITAIN.

296. Macpherson, Miss L., London. Embroidered curtain.
297. MacRae, Miss S., Rothesay. Tartan hose.
298. Maples, Misses H. & E., Spalding. Fish scale embroidery.
299. Mercier, Mrs. J., Tewkesbury. Chemise, chalice veil, socks, towel and pillow case.
300. Miller, Mrs. W. F., Sidcot. Bed cover.
301. Mitford, Miss E. B., London. Green silk stole.
302. Molineaux, Misses, London. Baby shoes.
303. Morant, Miss L., Weymouth. Mounted worked fan.
304. Morris, Miss May, London. Coverlet for bed.
305. Newton, Miss I., Ireland. Curtain.
306. Nicholson, Mrs. A. J., Cork, Ireland. Linen quilt; portiere; couverture.
307. Noble, Miss M. G., Hull. Patchwork quilt, 15,682 pieces.
308. Noedel, Miss, Sandringham. Aprons, overalls for artists; blouses.
309. Paget, Mrs. K. M., London. Copy of old Turkish and Ruskin linen embroidery.
310. Palmer, Misses Felise, Windsor. Cushion cover; children's smocks.
311. Parkinson, Miss M., Brighton. Coral embroidery.
312. Phelps, Miss A. J., Farringdon. Samples of darning.
313. Purvis, Miss, Salisbury. Stole; surplice.
314. Pye, Mrs. Walter, Stirling. Portiere; bodice trimmings.
315. Randall, Miss, Slough. Embroidered quilt.
316. Rigg, Miss M. B., London. Cushion.
317. Russell, Miss R., London. Worked pictures.
318. Saunders, Miss F. H., Baltinglass, Ireland. Sideboard cloth, Mountmellick work.
319. Saunders, Miss L., Baltinglass, Ireland. Toilet cover.
320. Scott, Miss A., London. Poker work.
321. Sharp, Miss C., Barnet. Knitted stockings.
322. Shepard, Miss A., London. D'oyleys; brackets.
323. Sheppard, Mrs., Surbiton. Strip for table.
324. Sherlock, Mrs., Castletown, Isle of Man. D'oyleys.
325. Smallwood, Miss, Great Malvern. Cushion.
326. Smith, Miss M. A., London. Chair backs, table cloth, fan and blotter.
327. Stone, Miss L., Streatham. Screen.
328. Superioress, Convent of Mercy, Abingdon. Hood of cope.
- 328a. Thompson, Miss, Lancaster. Tea cloth.
329. Thompson, Miss E., Lancaster. Netted bags.
- 329a. Tobin, Miss E. G., Cheshire. Copy of old christening quilt, etc.
330. Tracy, Miss J. F., Ipswich. Fish scale embroidery.

- 330a. Walker, Miss E., Robin Hood. The "Months," in needlework.
331. Walmsley, Miss A., Lucerne, Switzerland. Table cloth.
- 331a. Webster, Mrs., Edinburgh, Scotland. Tartan socks.
332. Webster, Mrs., Wemyss. Satin embroidery; design found on Queen Antoinette's tambour frame at Le Petit Trianon.
- 332a. Welch, Miss E., Canonbury. D'oyley.
333. Westrope, Miss M. E., Clifton. Table covers, melon seed work.
- 333a. Wheeler, Miss M., Bridgenorth. Table cover.
334. Whitehead, Mrs., Ramsgate. Tea cloth; d'oyley.
- 334a. Winks, Mrs. Foulkes, Brixton. Chemise, lace top.
335. Woodward, Miss E. C., London. Worked Bible cover.

Nursing.

- President:* Mrs. Bedford Fenwick.
- Lady Jeune, Mrs. Priestley, Miss Emily Shaw-Lekevre, Miss Isla Stewart, Miss K. Hendie Close, Miss de Pledge, Mrs. Cheadle, Miss S. Cartwright, Mrs. Walter Lakin, Miss Edith Kirwan-Ward, Miss Annesley Kenealy and Mrs. Holmes Spicer.
- 335a. Autograph portrait of Her Majesty, the Queen, patron of Queen Victoria's Jubilee Institute for Nurses; portrait of H. R. H. the late Grand Duchess of Hesse, Princess Alice of Great Britain and Ireland; portraits of H. R. H. Princess Christian of Schleswig-Holstein, Princess Helena of Great Britain and Ireland, President of the Royal British Nurses' Association.
336. Padded splints; bandages; surgical dressings and appliances; items of comfort for the sick.
- 336a. Hygienic clothing; dietary service for the sick; nurses' uniforms, caps and bonnets; gallery of celebrated nurses; medals, badges and decorations awarded to nurses; certificates of British nurse-training schools; nursing library.
337. Bust of H. R. H. Princess Christian, President of the Royal British Nurses' Association; bust of Rohere, founder of Saint Bartholomew's Hospital, A. D. 1122; statue and personal effects of Sister Dora; invalid appliances and furniture designed by nurses; models of medical and surgical treatment designed by Sister Marion, Homœopathic Hospital, M. R. B. N. A.; model of Leper Colony, Yakoutsk; models of the Pridgin-Teale for excluding dust from rooms, cupboards, etc.

Philanthropy.

- President:* Baroness Burdette-Coutts.
- Countess of Harrowby, Mrs. Boyd Carpenter, Mrs. Holmes White, Miss Ellen E. White and Miss Mary Steer.
- 337a. Papers on the Philanthropic Work of Women for Reading at the Philanthropic Congress.
338. Type-written Reports on the Philanthropic Work of Women, classified under the following subject-headings: Childhood; Girlhood; Women; Help for Poor

WOMAN'S BUILDING.

Ladies; Home Mission Work; Amelioration of the Condition of the Working Classes; Women as Poor Law Guardians; Working Guilds and Work Societies; Blind, Deaf and Dumb, and Care of the Helpless; Nursing; Work among British Soldiers and Sailors; Technical and Other Educational Work; Philanthropic Work of Women in Ireland, and Philanthropic Work in the Colonies and Abroad.

Models and Specimens' of Handicraft Work.

- 338a. Model of a children's holiday home and a creche connected with the Ragged School Union; model of a window and a London cabman's shelter decorated with flowers from the London Flower Girls' Mission; beaten brass letter box and tray from Miss Wingfield-Digby's brass-work class, Bournemouth; carved wood letter box from the Hon. Odeyne de Grey's Ratcliffe carving class, London; iron kettle stand, lamp, hinge, bracket and candlestick from Miss Maude's village iron-work class, Curry Rivel, Somerset; artificial flowers from the London Flower Girls' Mission, and carved wood platter and work basket from Miss Fergusson's industrial classes, West Linton, Scotland.
339. Specimens of work from the following Industrial Institutions affiliated to the Society for Promoting Female Welfare: Alford Needlework Association; Portman Chapel Work Society; West Holme Inebriates' Home, Hounslow; Halstead Industrial Home; Digby Institute, Bournemouth; the Cripples' Home and Industrial School for Girls, London; the Cripples' Nursery, London; Italian Protestant Orphanage, Florence; Indigent Blind Visiting Society, London; Industrial Home for Girls, London; South Grove Home School, Tunbridge Wells; Chinese Bible Mission to Women and Children; Epsom Mission Room Work Society; and Illuminated Text Mission.

Irish Industries.

- 339a. Design in Mrs. O'Brien's Limerick black silk lace for a fan; sent by Mrs. Rogers of Sevenoaks.
340. Handkerchief case from Mrs. Vesey's Dunleckney cottage industry.
- 340a. Embroidered apron, pinafore and cushion from Mrs. Bagwell's Marlfield cottage industry.
341. Doyleys and table covers from Mrs. Ponsonby's Garry Hill girls' class.
- 341a. Work from Miss Stewart's knitting and embroidery class, Ballyardle.
342. Specimens of the peasant knitting industry at Carna.
- 342a. Specimens of grey serge, natural wool and Irish flannel from Mrs. Bernard's Providence Technical Woollen Manufactory, Foxford.

Lace, Embroidery and Needlework.

343. Work done by blind children.
344. Specimens of stitches worked at the Sister's House, Fairfield, near Manchester.

345. Specimens of lace from the Association for the Encouragement and Improvement of Handmade Pillow Lace for the counties of Northampton, Buckingham and Bedford.
346. Satin embroidery from Miss Ensor, Norwich.
347. Knitted hosiery from St. Chad's Home for Waifs and Strays, Leeds.
348. Patchwork quilt from Miss Fergusson's industrial classes, West Linton, Scotland.
349. Stockings from Miss Steer's Bridge of Hope, London.
350. Work from London Soho Club for Working Girls, banner by Agnes Robertson, a worker at Crosse & Blackwell's jam factory, samples of art needlework stitches by Harriet Alcock, a clerk; sent by the Honble. Maude Stanley.
351. Specimens of work from the Ragged School Union.

Pictures and Photographs.

352. Photographs of Gordon Hall, Mildmay Boarding House, Deaconess House and Missionary Training Institute at Liverpool; sent by Mrs. Stephen Menzies.
353. Photograph of Mrs. Ponsonby and of her girls' class, Garry Hill.
354. Photographs of Halstead Industrial School; sent by Miss Greenwood.
355. Photograph of the Meath Home for Epileptics.
356. Photographs of Miss Steer's Bridge of Hope, East London.
357. Grants, doles and charities in the county of Norfolk, illustrated with engravings of churches, etc., from Miss Ensor, Norwich.
358. Sketch of a lace-maker in the village of Pitsford, Northamptonshire.
359. Sketches illustrating the work in India of the Marchioness of Dufferin and Ava.
360. Pictures by students of the Art Students' Home, Brunswick Square, London.
361. First Conviction under Martin's Acts ("The Animals' Charter"); from the R. S. P. C. A.

Maps.

362. Map of London, showing the districts in which common lodging houses are situated. From the Lodging House Mission.
363. Map of London, showing the dining-rooms supplying dinners for poor children in connection with the Destitute Children's Dinner Society.

Books.

364. Year Book (1892) of Church of England in the Diocese of Adelaide.
365. Aldershot, a record of Mrs. Daniell's work among the soldiers.
366. Associated Workers' League, 1892.
367. Biblewomen and Nurses, a record of the work of the London Bible and Domestic Female Mission.
368. Elizabeth Gilbert, and her work for the Blind, by Frances Martin.
369. Our Blue Jackets, a narrative of Miss Weston's life and work among our sailors, by Sophia G. Wintz.

GREAT BRITAIN.

370. Catholic Directory; Ecclesiastical Register and Almanac for 1892.
 371. Church of England Year Book for 1892.
 372. Countess of Huntingdon and her connection, by Rev. J. G. Figgis.
 373. English Women and their work in Queen Victoria's reign, 1857-1887, by Miss Hubbard.
 374. English Women's Year Book and Directory.
 375. Extracts from Minutes of Proceedings of Yearly Meeting of Friends, 1891.
 376. Friends' First Day School Association, 1891.
 377. Friends' Foreign Mission Association, 1891.
 378. Friends' Report of the Home Mission Committee to the Yearly Meeting, 1891, and Report of Addresses at Meeting at Devonshire House, 1891.
 379. Friends' Syrian Mission, 1892.
 380. Girls' Friendly Society; Associates' List, 1892.
 381. What to do With Our Girls, by A.T. Vanderbilt.
 382. Work of Private Persons and Societies, under the Neglected Children's Act, 1890, for the years 1890-1891, in Melbourne.
 383. Moravian Church Book.
 384. New South Wales Statistical Register for 1891 and previous years.
 385. Nurses' Directory for 1892.
 386. Poor Sisters of Nazareth, Hammer-smith, by Alice Meynell.
 387. Ladies' Sanitary Association, six vols.
 388. Mrs. Spurgeon's Book Fund and its Work, three vols., 1887, 1889, 1890.
 389. Victoria Charitable Institution's Report of the Royal Commission 1891; Department for Neglected Children and Reformatory Schools, 1890, by the Secretary.
 390. Papers read at a Conference convened by the Liverpool Ladies' Union of Workers among Women and Girls, 1891.

IRELAND.

In Conjunction with the Irish Industries Association.

President: Countess of Aberdeen.

391. Cappelquin, Miss Keane's Industry. Reticella and raised point lace.
 392. Carrickmacross Industry. Bridal dress, veil, fan and handkerchief.
 393. Clones Lace-making District. Crochet work.
 394. Connermara Peasant Woman. Embroidered baby's robe.
 395. Dublin, Cabra Convent Industry. Lace bridal set.
 396. Dublin, Gold Bridge Convent Industry. Tambour lace alb.
 397. Garryhill Cottage Industry. Embroidered tea-cloths.
 398. Innishmacsaint Lace Industry. Raised needlepoint lace.
 399. Irish Distressed Ladies' Fund. Embroidered vestments.
 400. Kenmare, Convent of Poor Clares. Flouncing; embroidered vestments.
 401. Kinsale, Convent of Mercy. Flouncing; bordering: handkerchiefs.

402. Limerick, Convent of Good Shepherd. Tambour lace alb.
 403. Limerick Lace-making School. Lace scarfs.
 404. Limerick, Mrs. Vere O'Brien's Industry. Tambour lace work.
 405. Newry, Convent of Mercy. Tambour lace alb.
 406. New Ross, Carmelite Convent. Flouncing, crochet and Jesuit-point.
 407. Parsonstown, St. John's Industry. Point lace flounce, fan and handkerchief.
 408. Royal School of Art Embroidery. Embroidered vestments.
 409. Turbotstown Cottage Industry. Embroidered linen quilt.
 410. Youghall, Presentation Convent. Needle-point flouncing.

SCOTLAND.

In Conjunction with the Scottish Home Industries Association.

President: Countess of Aberdeen.

Secretaries: Miss Munro Ferguson and Miss Meta Donald.

Arts.

411. Anderson, Miss, Mauchlin. Bent iron work mirror.
 412. Butcher, Mrs., Edinburgh. Inlaid box.
 413. Dempster, Miss, Sterling. Inlaid blotter.
 414. Ferguson, Mrs. Munro, Novar, N. B. Design for fan.
 415. Gillan, Miss E., Ayr. Hand-painted tea set.
 416. Graham, Miss, Crieff, N. B. Case of filigree work.
 417. Hamilton, Mrs. Vereker, London. Bronze medallions.
 418. Harvey, Misses, Tain, N. B. Carved table, clock case and bellows.
 419. Perman, Miss, Glasgow. Draught screen.
 420. School of Domestic Economy, Edinburgh. Specimen diploma, etc.
 421. Thompson Anstruther, Miss, Colinsburgh, N. B. Arab frieze.
 422. Traquair, Mrs., Edinburgh. Photographs of illuminated vellum manuscript of Tennyson's "In Memoriam," and two of Mrs. Browning's sonnets illuminated.
 423. Tytler, Miss Fraser, Milton Bridge, N. B. Statuette, "A mud-lark," tracings of ships' plans.
 424. Warrack, Miss, London. Brass tray.

Embroideries.

425. Gillan, Mrs., Ayr. Wall panel; table cover.
 426. Gillan, Misses, Ayr. Drapery; bed-spread; cushion; cot cover; mantel border.
 427. Haddo School of Needlework. Embroidered peacock.
 428. Houston, Women of (Manageress, the Lady Anne Spiers, Houston House, Renfrewshire). Houston embroidery.
 429. Royal Repository for Gentlewomen's Work, Edinburgh. Specimens of work.

WOMAN'S BUILDING.

Old Embroideries.

430. **Lent by the Countess of Aberdeen.** Embroidery, worked by Anne, Countess of Aberdeen, 1740.
431. **Lent by Mrs. Morrison Duncan, of Norton.** Portion of ancient hanging in green velvet, embroidered with raised needlework design, a style specially used in Scotland during the latter Stuart reigns; specimens of old muslin curtain border embroidered by Mrs. Catherine Mackenzie, and old ruffle needlework, as worn on last century dresses; fragment of old Scottish drawing-room coverings embroidered early this century on homespun linen, with specimens of the woolen and flax threads used; ancient pocket-book, worked with green and gold threads on canvas in one of the old Scottish book-cover stitches; Scottish screen, embroidered early this century with the Nicholson arms; bags of Fair Isle knitting and two Spanish bags bought in Valencia market-place, to show similarity; scarf in Scottish needle lace, date early this century, and framed piece of old style embroidery executed in colored threads on linen.
432. **Lent by the Countess of Strathmore, Glamis Castle, N. B.** Embroidery from the bed of Patrick, Earl of Kinghorn, worked with his arms, about the year 1606.

Home Industries.

433. **Ayrshire School of Art and Women's Industries** (Manageress, Hon. Mrs. Vernon, Ayr). Portiere; screens and embroidery.
434. **Aberdeen, Women of.** Knitted gloves.
435. **Gairloch, Women of** (Manageress, Lady Mackenzie, of Gairloch, N. B.). Hand-knitted stockings.
436. **Harris, Women of** (Manageress, Lady Scott, North Harris). Homespun and woven tweeds; spinning wheel.
437. **Shetland, Women of** (Manageress, Mrs. Lyell, Kinordy, Kirriemuir, N. B.). Specimens of knitting.
438. **Stevenson, Miss.** Knitted gloves; Victoria tartan.

Lace.

439. **Greig, Mrs., Aberdeen.** Pitsligo lace handkerchief; lace.

WALES.

President: Lady Aberdare.

Hon. Secretary: Miss Adeane.

Women's Industries from North Wales.

440. **Adeane, Miss, Holyhead.** Lay figure dressed in the national costume of North Wales, Welsh costume with high hat, Welsh aprons, various colors; Anglesey spinning wheels, specimens of homespun flax and wool and silk and wool fabrics.
441. **Anglesey, Women of.** Hand-knitted stockings.
442. **Denbigh, School child of.** Sample of marking as done in a Welsh school.
443. **Home Art Center, Holyhead.** Bed coverlet by M. Elliott.
444. **Curtain, reproduced from seventeenth century four-post bed, by C. Lewis.**

445. **Sampler of stitches used in old embroidery, sheet and pillow cases, by E. Elliott.**
446. **Mirror from original, Henry VIII's time, by K. Sharpe.**
447. **Silver-backed brush by P. Crosse.**
448. **Hand glass by A. M. Edwards.**
449. **Copper tray and leather blotting-book by E. Edwards.**
450. **Owen, E. Tycroes.** Spinning wheel.
451. **Parry, Catherine, Presadfed.** Welsh wigs, as worn by old people in Wales.
452. **Williams, Jane, Aberfraw.** Baskets made of grass grown on Newborough Sands.

Women's Industries from South Wales.

453. **Hand-loom for flannel weaving as done by women in South Wales, lent by Parry and Rock.**
454. **Samples of Welsh flannels made by women.**
455. **Spinning wheel for wool, sent by Lady Llewelyn.**
456. **Dressed figure in costume of Swansea cockle woman, sent by Lady Llewelyn.**
457. **Welsh coverlets quilted by women in their own homes.**
458. **Hand-knitted stockings.**
459. **Machine-made stockings and Welsh flannels woven by women in Parry and Rock's woolen factories.**

PORTRAITS OF EMINENT BRITISH WOMEN.

In Medieval Period.

460. **St. Eadgitha, or Edith, of Wilton.** Daughter of King Edgar, died 984. Pen and ink drawing of effigy from seal of Wilton Abbey.
461. **Devorguilla of Baliol.** Founder of Baliol College, Oxford, died 1267. Pen and ink drawing of effigy from seal attached to the statues of the college.
462. **Ela, Countess of Salisbury.** Wife of William Longespe, lived 1188-1261; Abbess of Lacock, 1240-1258. Pen and ink drawing of effigy from seal used by her when filling office of High Sheriff of Wiltshire after husband's death.
463. **Eva de Braose.** Died 1246. Lithograph from monument in St. Mary's Church, Abergavenny.
464. **Eva de Cantilupe, Baroness of Abergavenny.** Died 1257. Lithograph from monument in St. Mary's Church, Abergavenny.
465. **Elizabeth of Clare, Countess of Ulster.** Founder of Clare College, Cambridge, died 1340. Engraving.
466. **Mary de St. Paul, Countess of Pembroke.** Founder of Pembroke College, died 1377. Pen and ink drawing after painting at Cambridge; also one after an old illumination.
467. **Margaret of Anjou.** Wife of Henry VI, founder of Queen's College, Cambridge, died 1482. Pen and ink drawing after an old illumination.

GREAT BRITAIN.

468. **Margaret Beaufort, Countess of Richmond and Derby.** Mother of Henry VIII, founder of Christ's College, Cambridge, lived 1441-1509. Engraving from picture in collection of the Earl of Derby.

469. **Frances Sydney.** Founder of Sydney College, Cambridge, died 1588. Engraving after a picture in the College.

470. **Juliana Berners.** Priores of Sopwell, near St. Albans, elected about 1480. Engraving.

471. **Elizabeth Hervey.** Abbess of Elstow, Bedfordshire, elected about 1520. From monumental brass.

472. **Agnes Jordan.** Abbess of Syon, elected 1534. From monumental brass.

473. **Esther Inglis.** Flourished toward close of sixteenth century. From MS. of the Proverbs of Solomon, at the Bodleian Library, Oxford.

474. **Dorothy Wadham.** Founder of Wadham College, Oxford, died 1618, aged 84. Pen and ink sketch after prints in British Museum.

In Tudor Period.

475. **Queen Mary.** Lived 1515-1558. Engraving after Sir Antonio More.

476. **Queen Elizabeth.** Lived 1533-1603. Engraving.

477. **Mary, Queen of Scots.** Engraving after picture in St. James' Palace.

478. **Jane Seymour.** Engraving after Holbein.

479. **Anne Boleyn.** Engraving after Holbein.

480. **Catherine Parr.** Engraving after Holbein.

481. **Margaret Roper.** Daughter of Sir Thomas More, the Chancellor, lived 1508-1544. Engraving.

482. **Anne Askew.** Lived 1521-1546, burned at the stake in Smithfield, July 16, 1546. Photograph of picture in possession of Sir Richard Cholmondeley.

483. **Jane Heddington (Mrs. Cecil).** Mother of the great Lord Burleigh. Photograph from picture in possession of the Marquis of Salisbury.

484. **Mildred Coke (Lady Burleigh).** Daughter of Sir Anthony Coke, lived 1526-1589. Photograph from picture in possession of the Marquis of Salisbury.

485. **Lady Jane Grey.** Lived 1537-1554. Engraving.

486. **Mary Sidney.** Countess of Pembroke. Sister of Sir Philip Sidney, lived about 1550-1621. Engraving after picture of Mark Gerard's.

487. **Lady Arabella Stuart.** Lived 1575-1615. Engraving after Van Somer.

In Civil Wars.

488. **Elizabeth Steward (Mrs. Cromwell).** Mother of Oliver Cromwell, died 1654. Engraving after an old picture.

489. **Anne Clifford, Countess of Dorset, Montgomery and Pembroke.** Hereditary High Sheriff of Westminster, lived 1589-1675. Engraving from picture in collection of the Duke of Dorset.

490. **Charlotte de la Tremouille.** Wife of Sir James Stanley, Earl of Derby, died 1663. Engraving after Vandyke of the Earl, the Countess and her son.

491. **Jane Lane.** Afterward Lady Fisher, died September 9, 1689. Photograph from picture.

492. **Flora Macdonald.** Died 1790. Engraving after portrait by Alan Ramsay.

493. **Lady Fanshawe.** Lived 1625-1680. Photograph from picture by Sir Peter Lely.

494. **Mrs. Lucy Hutchinson.** Wife of Colonel Hutchinson. Engraving.

495. **Lady Rachael Wriothesley.** Wife of Lord William Russell, daughter of Sir Thomas Wriothesley, Earl of Southampton, lived 1636-1723. Engraving after picture at Woburn Abbey.

In Early Half of Sixteenth Century.

496. **Queen Mary.** Lived 1662-1694. Engraving after Sir Godfrey Kneller.

497. **Queen Anne.** Lived 1665-1714. Engraving after Sir Godfrey Kneller.

498. **Sarah Jennings, Duchess of Marlborough.** Lived 1660-1744. Engraving after Sir Godfrey Kneller.

499. **Margaret Lucas, Duchess of Newcastle.** Died 1673. Daughter of Sir Charles Lucas. Engraving.

500. **Mrs. Pope.** Mother of the poet. Etching from a drawing at Strawberry Hill.

501. **Anne Donne (Mrs. Cowper).** Mother of the poet, died 1737. Etching by Blake.

502. **Elizabeth Rowe.** Writer of religious works. Lived 1674-1735. Engraving.

503. **Mrs. Wesley.** Mother of John and Charles Wesley.

504. **Selina, Lady Huntingdon.** Lived 1707-1791. Engraving.

505. **Elizabeth Carter.** Lived 1717-1806. Engraving after Sir Thomas Lawrence.

506. **Lady Mary Wortley Montague.** Lived 1720-1800. Engraving.

507. **Mrs. Montague.** Lived 1729-1800. Engraving.

508. **Mrs. Chapone.** Lived 1727-1801. Engraving.

509. **Hannah More.** Lived 1745-1833. Engraving.

Pioneers in Philanthropy and General Advancement of Women.

510. **Elizabeth Fry.** Lived 1780-1845. Photograph from picture by Richmond.

511. **Hannah More.** Lived 1745-1833. Engraving from portrait by Pickersgill in National Portrait Gallery.

512. **Mary Wolstonecraft Godwin.** Lived 1759-1797. Photograph after Opie.

513. **Lydia Ernestine Becker.** Lived 1827-1890. Photograph.

514. **Millicent Garrett Fawcett.** Photograph.

515. **Mary Carpenter.** Lived 1807-1877. Pen and ink sketch from photograph.

516. **Mrs. Nassau Senior.** Lived 1829-1877. Photograph from portrait by Watts.

517. **Florence Nightingale.**

518. **Sister Dora.** Lived 1832-1878. Photograph of statue at Walsall.

WOMAN'S BUILDING.

519. Dr. Elizabeth Blackwell. Photograph.
 520. Dr. Elizabeth Garrett-Anderson. Photograph.
 521. Caroline Chisholm. Lived 1810-1877. Woodcut.
 522. Miss Marsh. Photograph.
 523. Miss F. A. Robinson. Photograph
 524. Miss Weston. Photograph.
 525. Mrs. Ranyard. Photograph.
 526. Mrs. Meredith. Photograph.
 527. Mrs. Josephine Butler. Photograph.
 528. Mrs. P. A. Taylor. Photograph.
 529. Miss Rosamond Davenport Hill. Photograph.
 530. Miss Florence Davenport Hill. Photograph.
 531. Mrs. Ashworth Hallett. Photograph.
 532. Miss Caroline Ashurst Biggs. Died 1889. Photograph.
 533. Mrs. Priscilla Bright McLaren. Photograph.
 534. Miss Isabella M. S. Tod. Photograph.
 535. Mrs. Anna Haslam. Photograph.
 536. Miss Flora Stevenson. Photograph.

Pioneers in Education.

537. Lady Stanley of Alderley. Photograph.
 538. Barbara Leigh Smith (Madam Bodichon). Died July 11, 1891. Photograph from painting by Miss Osborn, at Girton College.
 539. Miss Emily Davies. Photograph from portrait at Girton College.
 540. Miss Anne Jane Clough. First principal of Newnham College. Lived 1820-1892. Photograph from portrait by Shannon, at the college.
 541. Eleanor Mildred Balfour (Mrs. Henry Sidgwick). Principal of Newnham College. Photographed from portrait by Shannon, at the college.
 542. Mrs. Jellicoe. Founder and first principal of Alexandra College, Dublin. Died 1880. Photograph.
 543. Mrs. Wm. Grey and Miss Shirreff. Founders of National Union for Education of Women. Photographs.
 544. Miss Wordsworth. Principal of Lady Margaret Hall, Oxford. Photograph.
 545. Miss Beale. Founder and principal of Cheltenham Ladies' College. Photograph.
 546. Miss Buss. Founder and principal of North London Collegiate School. Photograph.
 547. Mrs. Byers. Founder and principal of Victoria College, Belfast. Photograph.
 548. Mrs. John Elder. Founder of Queen Margaret College, Glasgow. Woodcut.
 549. Philippa Fawcett. "Above the Senior Wrangler," July, 1890. Photogravure.

Central Group.

550. H. M. Queen Victoria. 1887.
 551. H. M. Queen Victoria. 1837.
 552. H. M. Queen Victoria as Princess Victoria. 1832.
 553. H. M. Queen Victoria as Princess Victoria. 1829.
 554. The Empress Frederick. Engraving after Winterbottom in 1858.

555. The Princess Alice. Engraving, 1860.
 556. The Princess Christian. Engraving.

In Science, History, Etc.

557. Anna Brownell Murphy (Mrs. Jameson). Lived 1794-1861. Photograph from bust by Gibson, in National Portrait Gallery.
 558. Mary Fairfax (Mrs. Somerville). Lived 1780-1872. Engraving after portrait in National Portrait Gallery.
 559. The Marchioness of Salisbury. Photograph.
 560. The Marchioness of Dufferin and Ava. Photogravure.
 561. Harriett Martineau. Lived 1802-1876. Engraving after portrait by Margaret Gillies.
 562. Frances Power Cobbe. Photograph.
 563. Anna Swanwick. Photograph.
 564. Agnes Strickland. Lived 1897-1874. Engraving after portrait in National Portrait Gallery.
 565. Catherine Winkworth. Died 1878. Photograph.
 566. Susanna Winkworth. Died 1885. Photograph.
 567. Amelia Blandford Edwards. Died 1892. Photograph.
 568. Matilda Betham Edwards. Photograph.
 569. Jane Harrison. Photograph.
 570. Miss Ormerod. Photograph.

In General Literature.

571. Mrs. Howitt. Lived 1805-1885. Engraving.
 572. Mrs. Piozzi. Lived 1769-1852.
 573. Joanna Baillie. Lived 1762-1851.
 574. Anne Taylor (Mrs. Gilbert). Lived 1782-1866. Jane Taylor. Lived 1783-1823. Photograph.
 575. Mary Lamb. Lived 1765-1847. Photograph.
 576. Mary Granville (Mrs. Delaney). Lived 1700-1788. From painting at Hampton Court.
 577. Mrs. Trimmer. Lived 1741-1810. Engraving.
 578. Mrs. Barbauld. Lived 1743-1825. Engraving.
 579. Mrs. Opie. Lived 1769-1853.
 580. Miss Mitford. Lived 1786-1854. Woodcut.
 581. Mrs. Hofland. Lived 1770-1844. Engraving.
 582. Mrs. Grant of Laggan. Lived 1753-1838. Engraving.
 583. Jane Welsh (Mrs. Carlyle). Died 1866. Photogravure.

In Poetry.

584. Elizabeth Barrett (Mrs. Browning). Lived 1809-1861. Photograph after picture by Mrs. Bridell Fox.
 585. Adelaide Anne Procter. Lived 1825-1864. Photograph.
 586. Christina Rossetti.
 587. Jean Ingelow. Woodcut.
 588. Felicia Browne (Mrs. Hemans). Lived 1794-1884. Engraving after miniature.
 589. Letitia Elizabeth Landon ("L. E. L."). Lived 1802-1839. Engraving after Maclise.

GREAT BRITAIN—ITALY.

590. Mrs. Tighe. Lived 1773-1810. Engraving after Bonney by Caroline Watson.

In Fiction.

591. Maria Edgeworth. Lived 1767-1849. Engraving.

592. Jane Austen. Lived 1775-1817. Engraving.

593. Fanny Burney (Madam d'Arblay). Lived 1752-1840.

594. Jane Porter. Lived 1776-1856. Engraving.

595. Mrs. Gore. Lived 1799-1861. Engraving.

596. Mrs. Trollope. Lived 1790-1863. Woodcut.

597. Sidney Owenson, Lady Morgan. Lived 1788-1859. Photograph.

598. The Honorable Mrs. Norton. Lived 1807-1877. Engraving.

599. Elizabeth Hamilton. Died 1810. Engraving after Raeburn.

600. Charlotte Bronte. Lived 1816-1855. Photograph from picture by Richmond.

601. Mrs. Gaskell. Lived 1810-1865. Photograph from portrait by Richmond.

602. "George Eliot." Lived 1819-1880. Photograph.

603. Mrs. Oliphant. Photograph.

604. Anne Thackeray (Mrs. Richmond Ritchie). Photograph.

605. Charlotte Yonge. Photograph.

606. Dinah Muloch (Mrs. Craik). Died 1887. Photograph.

607. Jessie Fothergill. Died 1891. Photograph.

608. Mrs. Humphrey Ward. Photograph.

609. Mrs. W. K. Clifford.

610. "Edna Lyall."

In Drama and Music.

611. Mrs. Siddons. Lived 1755-1831. Engraving after Sir Joshua Reynolds—as "Tragic Muse."

612. Fanny Kemble (Mrs. Butler). Died 1893. Engraving after Sir Thomas Lawrence.

613. Mrs. Kendall.

614. Ellen Terry. Photograph.

615. Rosalind Frances Ellicott. Photograph.

616. Clara Augusta Macirone. Photograph.

617. Mrs. Julian Marshall. Photograph.

618. Oliveria Prescott, A. R. A. M. Photograph.

619. Maude Valerie White. Photograph.

In Art.

620. Mary Moser, R. A. (Mrs. Lloyd). Died 1819.

621. Angelica Kaufmann, R. A. Lived 1740-1807. Engraving.

622. Anne Linwood. Lived 1756-1845. Engraving.

623. Mrs. Conway. Engraving.

624. Mary Beale. Lived 1632-1697. Engraving.

625. H. R. H. Princess Louise. Engraving.

626. H. R. H. Princess Beatrice. Photograph.

627. Louisa, Marchioness of Waterford. Died 1891.

628. Mrs. Allingham.

629. Lady Butler.

630. Mrs. Julia Cameron.

631. Mrs. Louise Stair Canziani.

632. Miss A. Grant.

633. Miss Mary Grant.

634. Mrs. Marrable.

635. Miss Moody.

636. Mrs. Perugini.

637. Mrs. Jopling Rowe.

638. Mrs. Adrian Stokes.

639. Mrs. Swynnerton.

ITALY.

DEPT. H.—MANUFACTURES.

GROUP 90.

1. Di Brazza, Countess Cora. Room furnished in style of fifteenth century. 572

GROUP 106.

2. Di Brazza, Countess Cora. Figure of lace-worker at work. Laces, including the personal lace of the Queen of Italy, consisting of bed-spread under which

Victor Emanuel was born, bridal veils of Burano, fans, sachets and Venetian *point coupe*, Genoese point and Sicilian laces. 664

DEPT. L.—LIBERAL ARTS.

GROUP 150.

3. Di Brazza, Countess Cora. Books on lace and lace making. 854

JAPAN.

DEPT. A.—AGRICULTURE.**GROUP 9.**

1. Fujimoto, Mrs. Mastu, Nagano. Co-
coons. 61
2. Japanese Ladies' Committee, Tokio.
Book on rearing silk worms, loaned by
the household of Her Imperial Majesty,
the Empress Dowager. 61
3. Machida, Miss. Kiku, Gumma. Co-
coons. 61
4. Mochizuki, Mrs. Kiku, Fukushima.
Cocoons. 61
5. Tajima, Mrs. Mase, Gumma. Co-
coons. 61
6. Tanaka, Mrs. Jiu, Nagano. Cocoons. 61

DEPT. H.—MANUFACTURES.**GROUP 89.**

7. Japanese Ladies' Committee, Tokio.
Orimono paper articles made by the
ladies of the Court. 557

GROUP 91.

8. Hattori, Mrs. Tsuna, Tokio. Porce-
lain statue. 576
9. Kawamota, Miss Masa, Aichi. Porce-
lain flower vases. 576
10. Kimura, Miss Suzu, Ishikawa. Porce-
lain plate. 576
11. Kiyokaze, Mrs. Kuma, Kioto. Porce-
lain flower vases. 576
12. Nilsaidow, Mrs. Rei, Tokio. Porce-
lain flower vases. 576
13. Ninomiya, Miss Kastu, Miyo. Porce-
lain inlaid work vases. 576
14. Saiki, Miss Tatsu, Miyo. Porcelain
flower vases. 576
15. Tsuji, Miss Sode, Saga. Porcelain
flower vases. 576
16. Yamamoto, Mrs. Yasu, Kanagawa.
Porcelain flower vases. 576

GROUP 93.

17. Kaji, Mrs. Ima, Aichi. Cloisonne
flower vase. 586
18. Nukii, Mrs. Yen, Kanagawa. Cloi-
sonne flower vase. 586

GROUP 96.

19. Kikuma, Mrs. Yaye, Tokio. Image
of a child. 599
20. Murata, Mrs. Sumi, Tokio. Sculp-
tured metal panel. 601

GROUP 100.

21. Abe, Mrs. Kuni Tochigi. Figured
silk fabric. 629
22. Akatsuka, Miss Sute, Hokkaido.
Figured silk fabric for sash. 629
23. Asano, Mrs. Hideno, Gifu. Figured
crepe. 630

24. Date, Mrs. Ino, Kioto. Silk damask.
629
25. Fujiu, Mrs. Taka Gumma. Figured
damask. 629
26. Hirata, Miss Shika, Kioto. Crinkled
silk fabric. 629
27. Inouye, Mrs. Nobu, Kioto. Crinkled
silk cloth. 629
28. Ioshizawa, Mrs. Iyono, Nagano. Raw
silk. 625
29. Iwamoto, Miss Hatsu, Tochigi. Fig-
ured silk fabric. 629
30. Japanese Ladies' Committee, Tokio.
a Figured silk fabrics, loaned by the
Household of Her Majesty, the Em-
press Dowager. 629
b Silk braid made by the ladies of the
Court. 632
31. Kawasaki, Mrs. Masu, Gumma. Raw
silk. 625
32. Moriyama, Mrs. Masa, Gumma. Fig-
ured damask. 629
33. Nakagawa Miss Koya, Shiga. Fig-
ured crepe. 630
34. Nishimura, Mrs. Shina, Kioto. Silk
panel. 629
35. Okamoto, Mrs. Uno, Kioto. Silk
panel. 629
36. Sasaki, Mrs. Yuki, Kioto. Figured
damask chair cover. 629
37. Takayama, Mrs. Suye, Nagano. Raw
silk. 625
38. Takeda, Mrs. Take, Aomori. White
figured silk. 629
39. Takeda, Miss Tomi, Aichi. Crinkled
silk fabric. 629
40. Tokuye, Mrs. Sawa, Gumma. Raw
silk. 625

GROUP 101.

41. Takayesu, Mrs. Matsu, Okinawa.
Spun silk cloth. 634

GROUP 102.

42. Nagasuye, Mrs. Ito, Fukuoka. Crink-
led cotton. 638
43. Tonno, Mrs. Oto, Okinawa. Cotton
fabric. 638

GROUP 106.

44. Akashi, Mrs. Masa, Ishikawa. Em-
broidered panel. 669
45. Horiguchi, Mrs. Chiyo, Tokio. Arti-
ficial flowers of cloth. 666
46. Iida, Mrs. Uta, Kiota. Embroidered
panel. 669
47. Kageyama, Miss Fusako, Tokio.
Embroidered panel. 669
48. Katow, Miss Toki, Tokio. Handker-
chief. 664
49. Kumai, Mrs. Yone, Osaka. Artificial
flowers of feathers. 666
50. Masuda, Miss Suye, Kioto. Embroid-
ered panel. 669
51. Minura, Miss Yayoi, Kioto. Fan. 667

JAPAN—NEW SOUTH WALES.

52. Mitsui, Mrs. Tsuta, Kioto. Artificial flowers of cloth. 666
 53. Orihara, Miss Uta, Tokushima. Embroidered table cover. 669
 54. Takahashi, Miss Teru, Tokio. Embroidered hanging decorations. 669
 55. Tsuruda, Miss Nao, Tokio. Embroidered panel. 669

GROUP 110.

56. Hoshiai, Mrs. Shizu, Nagano. Relief picture. 695
 57. Suda, Miss Roku, Tokio. Relief picture. 695
 58. Yeguchi, Mrs. Yaso, Kioto. Relief picture. 695

GROUP 140.

59. Takahashi, Miss Masu, Tokio. A Young Lady.
 60. Tshakara, Miss Ritsuko, Tokio. Seishonagon, the ancient poetess.
 61. Watanabe, Mrs. Yu, Tokio. A child grasping a dragon fly.

GROUP 141.

62. Atomi, Miss Katsu, Tokio. Pheasant and cherries.

63. Atomi, Miss Kwakei, Tokio. Weeds and flowers.
 64. Hashimoto, Mrs. Yei, Osaka. Flowers in four seasons.
 65. Iwai, Mrs. Naka, Kioto. Mount Arasi in four seasons.
 66. Kanow, Mrs. Hisako, Tokio. Ancient dancing.
 67. Mayeda, Mrs. Riyo, Tokio. Bird and chrysanthemum.
 68. Morizumi, Miss Tai, Osaka. Insect hunting.
 69. Noguchi, Miss Chika, Tokio. Ikao scenery.
 70. Sakuma, Miss Yone, Tokio. Butterflies and peonies.
 71. Takabayashi, Mrs. Tetsu, Tokio. Cat and flowers.
 72. Uyemura, Miss Tsune, Kioto. Young ladies.

DEPT. L.—LIBERAL ARTS.

GROUP 150.

73. Japanese Ladies' Committee, Tokio. Poem composed and written by Her Majesty the Empress and manuscripts in handwriting of court ladies and the committee. 854

NEW SOUTH WALES.

DEPT. A.—AGRICULTURE.

GROUP 18.

1. Parrott, Mrs. Beef candles. 97

DEPT. B.—HORTICULTURE.

GROUP 21.

2. Fischer, Miss. Jams and jellies. 141

GROUP 23.

3. Williams, Mrs. Sauces. 177

DEPT. C.—LIVE STOCK

GROUP 34.

4. New South Wales Committee.
 a Lyre bird's tails. 229
 b Stuffed birds; mounted swans. 230

GROUP 35.

5. New South Wales Committee. Butterflies. 235

GROUP 36.

6. New South Wales Committee. Stuffed and mounted animals. 236
 7. Rohu, Mrs., Apteryx. 236

DEPT. H.—MANUFACTURES.

GROUP 90.

8. New South Wales Commission. Hand-painted screen. 568
 9. Paterson, Mrs. J., Hand-painted screen. 568
 10. Windeyer, Lady. Fire screen, native companion. 572

GROUP 91.

11. Deane, Miss M. E. Plaques. 574
 12. Stephen, Miss. Terra cotta plaque. 574

GROUP 101.

13. Fischer, Mrs. Carl. Grass mats, baskets and hammock; aboriginal work. 635
 14. New South Wales Commission. Grass basket and aboriginal bag. 635

GROUP 102.

15. Punch, Mrs. Handkerchief. 639
 16. Twynam, Miss. Counterpane. 639

GROUP 104.

17. Clarke, Miss Mabel. Underwear. 657
 18. Dadley, Mrs. Robes. 653
 19. Davenport, Miss. Underclothing. 657
 20. Ellis, Mrs. Child's frock, smocked. 653
 21. Garrett, Mrs. Knitted socks and stockings. 657
 22. Harris, Mrs. Matthew. Knitted lace shawl. 657
 23. Head, Miss Georgina. Underwear. 656
 24. Maher, Mrs. Child's frock, smocked. 653
 25. Maund, Miss L. Child's pinafore. 653
 26. New South Wales Commission.
 a Baby's robe, fur trimmed costume, tweed gown and vest. 653
 b Cabbage tree hats. 654
 c Hoods. 655
 d Knitted shawl. 657

WOMAN'S BUILDING.

- | | | | |
|--|-----|---|-----|
| 27. Orr, Mrs. F. Tea gown, smocked. | 653 | 43. Daunt, Mrs. Specimens of knitting. | 665 |
| 28. Scott, Miss. Underclothing. | 657 | 44. Davenport, Miss. Darning. | 665 |
| 29. Scott, Miss J. Underclothing. | 657 | 45. Donnelly, Mrs. Crochet. | 665 |
| 30. Terry, Miss. Child's blouse. | 653 | 46. Fischer, Mrs. Karl. Balmain girls' point lace bibs; guipure handkerchief; lace. | 664 |
| 31. Windeyer, Lady. | | 47. Freeman, Miss. Modern point and case lace. | 664 |
| <i>a</i> Underwear and knitted shawl. | 657 | 48. Guille, Mrs. Old lace. | 564 |
| <i>b</i> Collars and cuffs. | 658 | 49. Hall, Mrs. J. Samples of darning. | 665 |
| GROUP 105. | | 50. Harris, Mrs. Fancy netting. | 655 |
| 32. McCarthy, Miss. Dingo skin mat, with head. | 661 | 51. Hayley, Mrs. Samples of darning. | 665 |
| 33. New South Wales Commission. | | 52. Kendall, Mrs. Mailler. Lace handkerchief. | 664 |
| <i>a</i> Rugs of skins and furs. | 660 | 53. McCarthy, Miss. | |
| <i>b</i> Mats of opossum tails and emu skins; foot-warmer. | 661 | <i>a</i> Lace scarf. | 664 |
| <i>c</i> Fur collars, cuffs, muffs and collar-ettes. | 662 | <i>b</i> Leather bracket flowers. | 666 |
| 34. See, Mrs. John. Rug of 456 opossum tails. | 661 | 54. Maund, Miss L. Swiss darning. | 665 |
| 35. Windeyer, Lady. | | 55. Moorhouse, Mrs. Tatting. | 665 |
| <i>a</i> Opossum rug. | 661 | 56. Nesbitt, Miss. Samples of darning. | 564 |
| <i>b</i> Cap of golden-breast water rat. | 662 | 57. New South Wales Committee. | |
| GROUP 106. | | <i>a</i> Drawn linen tea cloth. | 665 |
| 36. Alderton, Miss. Chemise. | 665 | <i>b</i> Fish scale flowers. | 666 |
| 37. Allwood, Miss. Mantle border. | 669 | <i>c</i> Embroidered fire screen and book cover. | 669 |
| 38. Belisario, Miss. Hand-painted fan. | 667 | 58. Overman, Miss. Roumanian work. | 665 |
| 39. Bruton, Miss A. Gold embroidered stole. | 669 | 59. Palmer & Green, M'mes. Bullion flowers. | 666 |
| 40. Burns, Mrs. J. F. Drawn thread and lace handkerchiefs. | 664 | 60. Scott, Mrs. Point lace collarette. | 664 |
| 41. Collins, Miss. Crochet lace. | 665 | 61. Sheldon, Mrs. Crochet petticoat. | 665 |
| 42. Dadley, Mrs. Needle work. | 665 | 62. Stack, Miss. Drawn silk work. | 665 |
| | | 63. Steffanoni, Miss. Bullion embroidery. | 669 |

RUSSIA.

RUSSIA.

Imperial Ladies' Committee of Russia.

An exhibit of woman's work from Her Imperial Highness, the Grand Duchess Elisabeth Teodorowna, from the city and government of Moscow; Mme. A. N. Narischkine, Tambow; Princess Urnssoff, Smolensk; Baroness Korff, Amour; Mme. Gontcharoff, Limbirk; Princess Shahavskvi,

Pensa; Mme. Gwrko, Warsaw; Mme. Baranoff, Nyni Novgorod; and the ladies' committees at Kasan, Wiatka, Odessa, Tobolsk, Kovno and Minsk. Also, large dolls dressed to represent the native costumes of the different clans of peasant girls of the empire, and court costumes from the time of the early reigns to the present day, and a book on literature, science and art.

SIAM.

DEPT. H.—MANUFACTURES.**GROUP 97.**

1. Various silver articles. 607

GROUP 98.

2. Small gold articles and rings. 612

GROUP 100.

3. Silk-lined bedspreads, silk and gold shawls and scarfs, girdles and children's belts. 630

GROUP 103.

4. Gold and silk cord. 647

GROUP 104.

5. Silk penungs, prince's gold and silver state robe and girdle, silver and gold pantalettes, gold embroidered nobleman's robe, girdle and doublets and child's doublet. 653

GROUP 106.

6. Gold lace aprons and bat covers. 664

7. Embroidered pillows, cushions and doilies. 665

8. Artificial flowers. 666

9. Sofa pillows, embroidered pieces and cap. 669

GROUP 108.

10. Gold and silk money-bags, tobacco pouches and betel pockets. 680

GROUP 110.

11. Siamese game, chess and saka boards and sets. 693

12. Biscuit, and other boxes of bead work. 694

13. Baskets, betel tray and box, bucket, cups and model of palace in wax. 695

DEPT. L.—LIBERAL ARTS.**GROUP 150.**

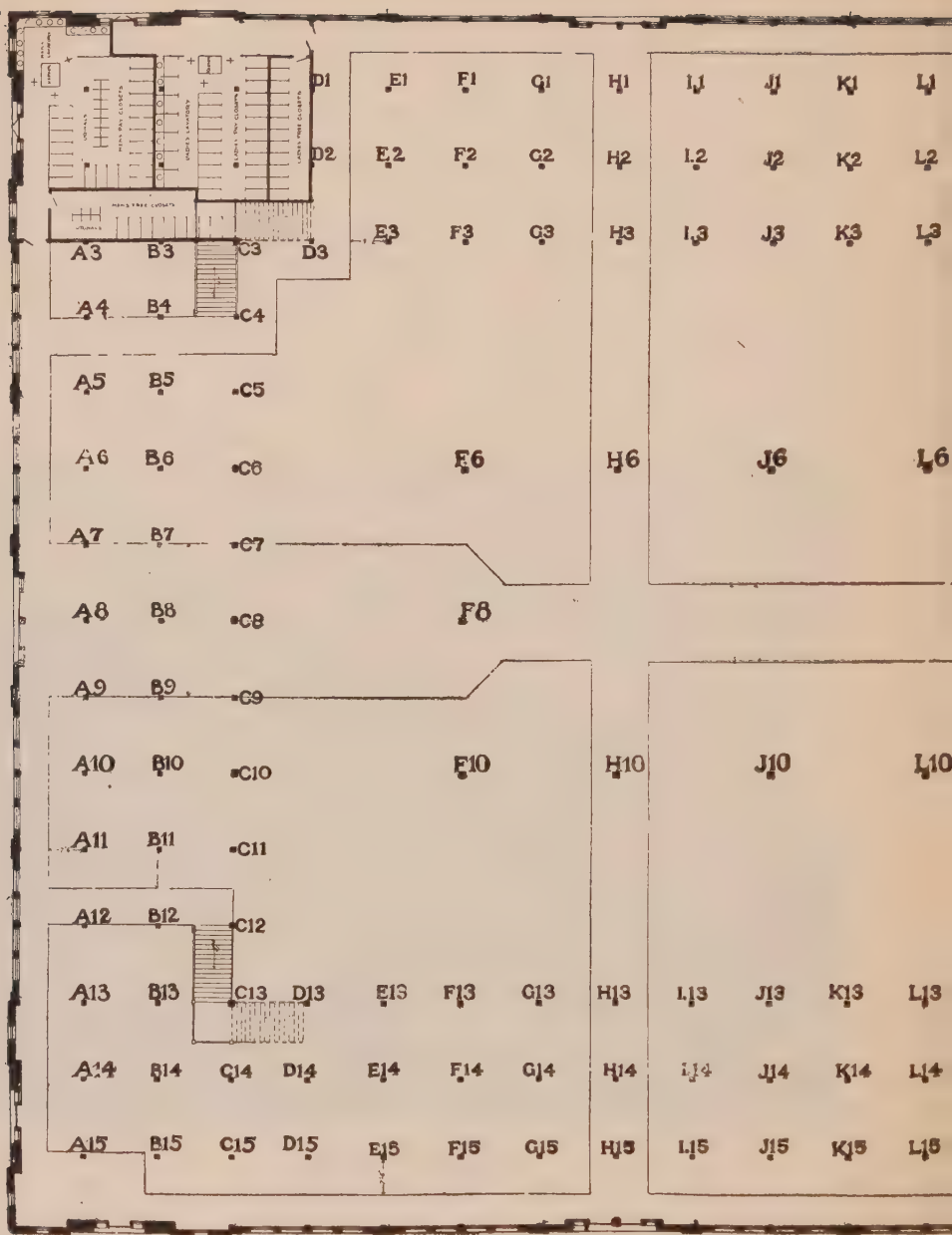
14. Educational text-books in Siamese 855

GROUP 115.

15. Photographs. 871



ANTHROPOLOGICAL BUILDING.



KEY TO I

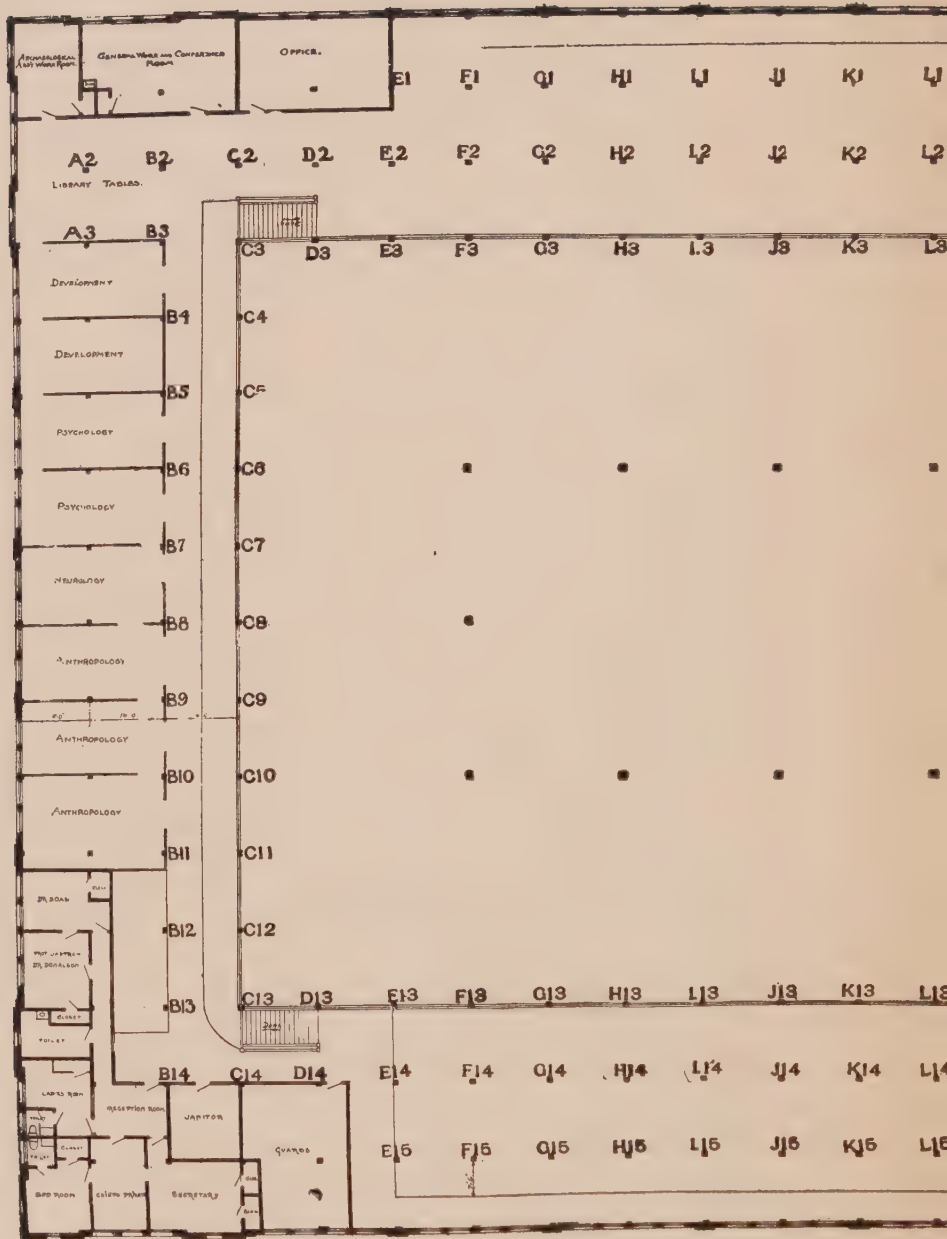
The Department of Ethnology occupies all the southern end of the main floor. These are occupied by Sanitation and Hygiene and the Bureau of Charities and A to F, and the columns on the main floor and in the gall 1 to 15, east to west. The letter and number following exhibit. The sign "Floor, J-6" indicates that the exhibit



FIRST FLOOR PLAN
ANTHROPOLOGICAL BUILDING,
WORLD'S COLUMBIAN EXPOSITION.

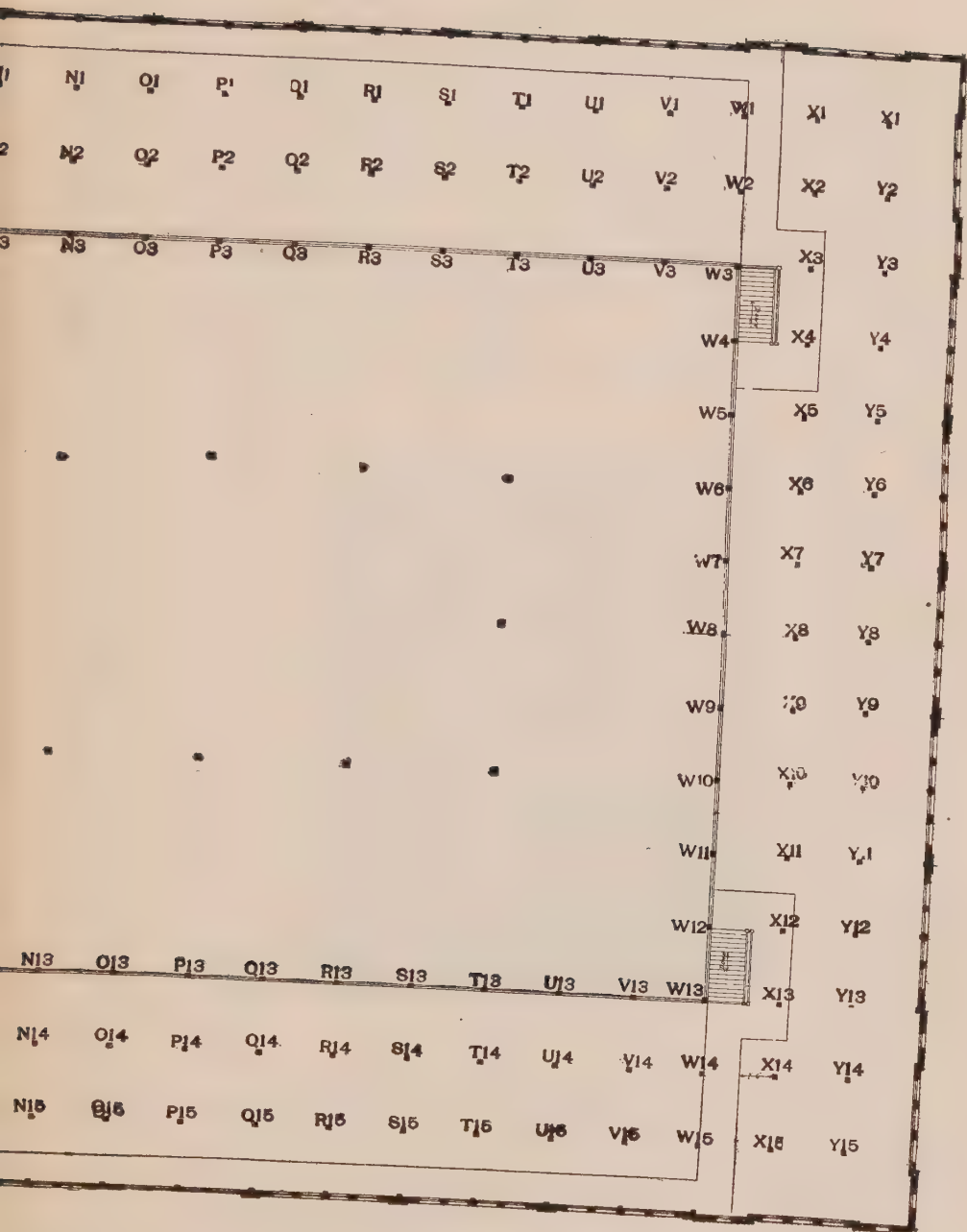
LATION.

the Anthropological Building except E and F in the
sions of the Liberal Arts Department—the Bureau of
ons. The sections on the main floor are lettered from
ttered from A to Y, north to south, and numbered from
it in the catalogue marks the column nearest to the
main floor near the column J-6.



COPYRIGHTED 1893,
BY THE
WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO.

GALL
ANTHROPO
WORLD'S C



R PLAN
BUILDING.
EXPOSITION.

DEPARTMENT M.—ETHNOLOGY.

THIS department, although generally known as that of Ethnology, includes the several groups of ethnology, archæology, anthropological laboratory, history and natural history of which the general exhibits are in the Anthropological Building; also the Latin American exhibit—the special exhibit of the relics of the time of Columbus arranged in the Convent of La Rabida; the reproductions of the ancient ruins of Yucatan on the grounds immediately north of the Anthropological Building; and the ethnographical exhibition of native people of America, who are living in their native habitations on the stretch of land along the eastern side of the south pond between the Anthropological Building and the Indian school-house. Just north of the Indian school-house is the Convent of La Rabida, and near it is the log house of pioneer times, which belongs to the historical section of the department. The Anthropological Building was the last of the Exposition buildings to be constructed, when it was found to be necessary to obtain more space for the section of education in the Manufactures and Liberal Arts Building. The Ethnological department was then assigned to

the new building was to have in the Building was given Education. The long and 255 feet lery 48 feet wide Thirty thousand southern end of up to the sections Sanitation and of rections belonging Arts. The remain-occupied by the ethnological ex-countries, State viduals, and the by the assistants who were sent to North, Central and make special ex-searches under the chief of the de-ing the building door on the north-after passing down beyond the gal-



F. W. PUTNAM, CHIEF.

the right and left the several small collections illustrating certain points in the archæology and ancient art of Assyria, Egypt and Rome; beyond this the Grecian exhibit by the Grecian Government, supplemented by collections from the Chicago Art Museum. This Grecian exhibit is made the central group in the hall. On the right of this is the French exhibit, and beyond that is the exhibit from the Spanish Government containing many groups brought directly from the Madrid Exposition. To the right of Spain's court are several groups of objects from the museums of Vienna and Berlin, and also the Russian exhibit. Passing northward from these exhibits along the western side of the building are several small exhibits from Asia and Africa. Following along the side aisle to the north is the large and interesting exhibit from New South Wales. Then come the several lots of objects from the Pacific islands which lead to the special collections made by the department illustrating the ethnology of the

and the space it Manufactures to the section of building is 415 feet wide, with a gal-on all four sides. square feet on the the floor is given of Hygeine and Charities and Cor-to the Liberal der of the floor is archæological and hibits of foreign boards and indi-collections made of the department various parts of South America to plorations and re-direction of the partment. Enter-through the main ern end the visitor, the main aisle lery, will see on

northwestern coast of America—the Queen Charlotte islands, Vancouver, etc. Of particular interest here is the complete model of the village of Skidegate with all its houses and totem poles. Crossing the main aisle, the next division is that of the Indians of North America, which contains several collections illustrating the habits and customs of the Indians. Next to this are the archæological and ethnological collections forming the Canadian exhibit; southward along the eastern side of the building are the State collections of New York, Indiana, Ohio, Wisconsin, Missouri, Colorado, Utah and of the Hemenway southwestern expedition and various other exhibits, particularly those from Ohio and the Delaware valleys made by the department. Then come the large and important exhibits from Mexico and the several republics of Central America. In these exhibits are some of the most interesting objects in the building. The collection of singular sculptures and strange tablets of hieroglyphs here combined has never been equaled; a mass of material has here been brought together which gives the student the long wished for opportunity for comparative study of this remarkable phase of early American culture. South of these exhibits are those from South America, which include the collections secured from the extensive explorations by the department in Ecuador, Chili, Peru and Bolivia, illustrating the arts and customs of the ancient people of those countries and also the customs and arts of many of the present tribes of the interior. There are also large and interesting ethnological exhibits sent by the Governments of British Guiana, Paraguay, Brazil and the Argentine Republic, illustrating the native people of these countries. These various exhibits are followed by a series of cases stretching entirely across the building which contain the special exhibit of the section of folk-lore, religions and games of all countries. Ascending to the gallery, the visitor will find the several offices of the department in the north-western corner, and a work-room and committee room on the western side. Between these rooms and occupying the whole northern gallery are the series of alcoves forming the anthropological laboratories. In these can be seen a large collection of instruments and apparatus, received from the more important anthropological laboratories of the universities in this country and from several in Europe, with a very extensive series of apparatus from the principal makers in Europe made especially for this exhibit. The laboratories are divided into three sections—Physical Anthropology, Neurology and Psychology. In these laboratories the practical working of the apparatus is shown and any one who wishes can have, by the payment of a small fee, various tests applied and can be measured and recorded upon cards which are given to the person, while the record is made upon the charts and tables hanging on the walls of the laboratory to illustrate the various subjects. Here, too, are a series of skulls and skeletons and various models showing the physical characteristics of the various races and varieties of man. An interesting series of charts in the Physical Anthropological section is that illustrating the development of over 50,000 school children in various cities of North America; while another series of diagrams and maps shows the physical characteristics of the Indians of North America, as derived from measurements and observations upon nearly 20,000 Indians, recorded by about seventy-five special assistants of the department, who were engaged for nearly two years in this work. On the western gallery are the several historical collections in which are many interesting objects. The largest of these is the exhibit of the State of Ohio. Here, also, are the exhibits of postage stamps and coins. Following these are several special exhibits, including those of taxidermists' and naturalists' supplies. Extending the whole length of the southern gallery is the exhibit of Ward's Natural Science Establishment of Rochester, New York. This is a perfect museum of natural history and in it one sees all forms of animal life from the sponges to man, all admirably classified and arranged. On the eastern gallery are many exhibits of natural history. Particularly noticeable are those of the States of Maine, New York, Pennsylvania, Indiana, Ohio, Missouri, North Dakota and Colorado, which contain representatives of the

birds, mammals, fresh water and land shells and fossils of the various States. The exhibit of Agassiz Association is also on this gallery and gives a very interesting illustration of the work and high aims of this important association in increasing the love for natural history studies.

The exhibit of the Latin American bureau is made in the Anthropological Hall by the Bureau of American Republics under the supervision of the State Department of the United States. The condition, the geographical knowledge and science of navigation at the time Columbus undertook his trip, are shown by archæological collections. The life and history of Columbus are taken up and followed to his grave by a series of illustrations, in which every country is shown. Photographs of Watlings island and every place visited by Columbus in America and every place identified with him in Spain, are exhibited. The armor and equipment which were worn by his men; a collection of articles such as he used in trading with the Indians; how the Indians were overcome and how they defended themselves; fragments of the first civilized settlement in America brought from Santo Domingo, down to the present day in Latin America, are all properly grouped and shown.

WARD BOILERS FOR

STEAMERS LARGE
OR
SMALL
LIGHT WEIGHT, GREAT POWER.

THREE TYPES

LAUNCH, NAVY AND MARINE.

ADOPTED BY U.S. GOVERNMENT, ^{OVER FIFTY} WAR VESSELS, LAUNCHES,
REVENUE CUTTERS, TUGS.
AFTER THE MOST EXHAUSTIVE COMPETITIVE TESTS. *Correspondence Invited.*



WORLD'S FAIR OFFICIAL SOUVENIR CO.,

T. P. MOODY, President.
J. B. NORTON, Vice-President.
Wm. HIGGINS, Sec'y and Treas.

Rooms 309-310 Temple Court Building,
No. 225 Dearborn Street.

THIS BADGE



Sample Badges by Mail,
Postpaid 25c.

Sample Badges by Mail,
Postpaid 25c.

Was Adopted

by the World's Columbian Commission Feb'y 20, 1893, at Washington, D. C., as the only OFFICIAL SOUVENIR of the World's Columbian Exposition. It is historically correct in every particular.

BUY NO OTHER!

PRICE 25 CENTS.

WHEREAS, T. P. Moody has designed a Souvenir Badge of the World's Fair, and caused the same to be copyrighted by the Librarian of Congress; and

WHEREAS, It appearing to this Board that the design of said Souvenir represents the Landing of Columbus in 1492, giving the bust of Columbus in the centre of a full-rigged ship—the Santa Maria—and in all respects being an authentic and instructive Souvenir:

RESOLVED, That the Board of Reference and Control of the World's Columbian Commission does hereby adopt said Souvenir as the official Souvenir of the World's Columbian Exposition.

Office of the Secretary.

WORLD'S COLUMBIAN COMMISSION.

CHICAGO, February 23, 1893.

I hereby certify that the above is a true and correct copy of a resolution adopted by the Board of Reference and Control of the World's Columbian Commission, at a meeting held in Washington City, February 20, 1893.

Witness my hand and the seal of the World's Columbian Commission, this twenty-third day of February, 1893.

Signed:

JNO. T. DICKINSON, Secretary.

ADDRESS, WORLD'S FAIR OFFICIAL SOUVENIR CO.

Rooms 309-310 Temple Court Building, 225 Dearborn St., CHICAGO.

WORTHINGTON

PUMPING MACHINERY

STEAM PUMPS

CONDENSERS, WATER METERS

The entire supply of water for the buildings and grounds of the Exposition is supplied by four Worthington Pumping Engines having a combined capacity of 40,000,000 gallons a day, located in the Worthington Pumping Station adjoining the S. E. corner of Machinery Hall. The drinking water is supplied from the 68th Street Station, near the entrance to the grounds, where may be seen in operation a Worthington High Duty Pumping Engine of 15,000,000 gallons capacity. Seven Worthington Pumping Engines having a combined capacity of 24,000,000 gallons a day are in operation in Machinery Hall supplying the water used for circulating purposes.

HENRY R. WORTHINGTON,

MAIN OFFICE, **NEW YORK** 86-88 LIBERTY ST.
145 BROADWAY.

—AMERICAN BRANCH OFFICES—

BOSTON,
70 KILBY STREET.

CHICAGO,
93 AND 95 LAKE STREET.
TELEPHONE MAIN 2142.

PHILADELPHIA,
607 ARCH STREET.

ST. LOUIS,
404 AND 406 WALNUT ST.

CLEVELAND,
54 FRANKFORT STREET.

DENVER,
1762 LARIMER STREET.

WORTHINGTON PUMPING ENGINE COMPANY,



153 QUEEN VICTORIA STREET, LONDON, E. C.

BRANCH OFFICES:

BIRMINGHAM.

NEW CASTLE ON TYNE.

MANCHESTER.

NEWPORT.

GLASGOW.

SWANSEA.

AMSTERDAM.

COPENHAGEN.

COMPAGNIE DES POMPES WORTHINGTON,

PARIS. BRUSSELS.

WORTHINGTON PUMPEN COMPAGNIE,

BERLIN. BUDA PESTH. VIENNA.

SOCIETA POMPE WORTHINGTON,

MILAN. NAPLES.

CALCUTTA, INDIA.

SIDNEY, AUSTRALIA.

CLASSIFICATION.

ETHNOLOGICAL AND ARCHÆOLOGICAL DEPARTMENT (M).

ETHNOLOGY, ARCHÆOLOGY, PROGRESS OF LABOR AND INVENTION.

GROUP 159.

VIEWS, PLANS OR MODELS OF PREHISTORIC ARCHITECTURAL MONUMENTS AND HABITATIONS.

- Class 939. Caves—natural, artificial; dwellings, natural and artificial.
- Class 940. Lacustrine dwellings—dolmens, tumuli, menhirs, cromlechs, alignments, cup-stones, graves, cists, crematories.
- Class 941. Cliff and other dwellings—models of dwellings, shelters, skin lodges, yourts, huts (of bark, grass, etc.), wooden houses.
- Class 942. Appurtenances.—Sweat-houses (models), totemposts (originals and models), gable ornaments, locks.

GROUP 160.

FURNITURE AND CLOTHING OF ABORIGINAL, UNCIVILIZED AND BUT PARTLY CIVILIZED RACES.

- Class 943. Household utensils and furniture.
- Class 944. Articles serving in the use of narcotics—pipes, etc.
- Class 945. Articles used in transportation.
- Class 946. Clothing and adornment.

GROUP 161.

IMPLEMENTS OF WAR AND THE CHASE.

(See also Groups 86 and 113.)

GROUP 162.

TOOLS AND IMPLEMENTS OF INDUSTRIAL OPERATIONS.

- Class 947. Gathering and storing food other than game.—Water vessels.
- Class 948. Articles used in cooking and eating.
- Class 949. Apparatus of making clothing and ornaments and of weaving.

GROUP 163.

ATHLETIC EXERCISES—GAMES.

GROUP 164.

OBJECTS OF SPIRITUAL SIGNIFICANCE AND VENERATION—REPRESENTATIONS OF DEITIES—APPLIANCES OF WORSHIP.

GROUP 165.

HISTORIC ARCHÆOLOGY—OBJECTS ILLUSTRATING THE PROGRESS OF NATIONS.

GROUP 166.

MODELS AND REPRESENTATIONS OF ANCIENT VESSELS, PARTICULARLY OF THE PERIOD OF THE DISCOVERY OF AMERICA.

GROUP 167.

REPRODUCTIONS OF ANCIENT MAPS, CHARTS, AND APPARATUS OF NAVIGATION.

- Class 950. Charts and maps of the world anterior to the voyage of Columbus.
- Class 951. Charts and maps following the discovery.
- Class 952. Charts and maps of the period of the early colonization of America.
- Class 953. Charts and maps of America and the World at the period of the Revolution and since.

GROUP 168.

MODELS AND REPRESENTATIONS OF ANCIENT BUILDINGS, CITIES, OR MONUMENTS OF THE HISTORIC PERIOD ANTERIOR TO THE DISCOVERY OF AMERICA.

GROUP 169.

MODELS AND REPRESENTATIONS OF HABITATIONS AND DWELLINGS BUILT SINCE THE DISCOVERY OF AMERICA.

GROUP 170.

ORIGINALS, COPIES, OR MODELS, OR GRAPHIC REPRESENTATIONS OF NOTABLE INVENTIONS.

GROUP 171.

OBJECTS ILLUSTRATING GENERALLY THE PROGRESS OF THE AMELIORATION OF THE CONDITIONS
•OF LIFE AND LABOR.

- Class 954. The evolution of the dwelling and its furniture.
- Class 955. The evolution of the plow and other implements of the farm and garden.
- Class 956. Evolution of tools.—The ax, saw, and other implements of handicraft.
- Class 957. Labor-saving machines and their effects.

GROUP 172.

WOMAN'S WORK.

GROUP 173.

STATE, NATIONAL, AND FOREIGN GOVERNMENT EXHIBITS.

GROUP 174.

THE NORTH AMERICAN INDIAN.

- Class 958. Special monographic exhibit of the tribes of America.
- Class 959. Villages or families of various tribes engaged in their native occupations.
- Class 960. Specimens of their special work and industries. Collections of Indian "trinkets" or curiosities.
- Class 961. Books or papers, written or printed, in his native tongue.
- Class 962. Means and methods of communication between tribes by "sign" language and "picture letters," etc. Status of females under tribal regulations.
- Class 963. Treaties and acquisition of territory from the various tribes, and how obtained.
- Class 964. Progress of Indian civilization through the efforts of the Government, missionaries, or by his own efforts and choice. His industrial pursuits and capabilities, as exemplified in the shop, on the farm and in the schoolroom. Inventions, etc.
- Class 965. Music. The "Columbian Indian Band," consisting of sixty or more instruments.
- Class 966. The allotment of lands to families and individuals, and its effects.
The Indian as an American citizen.
The hope of the Indian.
- Class 967. Other attainments and industries not specially mentioned. (For treatment of Indians, reservations, etc., see Class 831; also special Indian schools, see Class 848.)

GROUP 175.

PORTRAITS, BUSTS AND STATUES OF GREAT INVENTORS AND OTHERS WHO HAVE CONTRIBUTED
LARGELY TO THE PROGRESS OF CIVILIZATION AND THE WELL-BEING OF MAN.

GROUP 176.

ISOLATED AND COLLECTIVE EXHIBITS.

- Class 968. The Latin-American Bureau.

Department M.--Ethnology, Archæology, Progress of Labor and Invention.

SECTION OF ARCHÆOLOGY.

INDIVIDUAL EXHIBITORS.

- Colorado State exhibit.
 South Carolina State exhibit.
 French Ministry of Public Instruction; Government exhibit. Foreign. Central America, through M. Desire Charnay, as delegate.
 Costa Rica Government exhibit. Foreign. Calvo, J. B., 1616 Nineteenth street, N.W., Washington, D. C. Individual exhibit. Foreign. Costa Rica.
 Canada Government exhibit. Foreign. Guthrie, E. L., 907 West Fourth street, Marion, Ind.
 Green, C. H., Durango, Cal.
 Greece Government exhibit. Foreign.
 Golson, Edward S., 741 Russell street, South Saginaw, Mich.
 Hales, Henry, Ridgewood, N. J.
 Honduras Government exhibit. Foreign.
 Indiana State exhibit.
 Johnson, H. L., 822 N. Market street, Nashville, Tenn.
 Kamensky, Theodore, 6540 Myrtle avenue, Woodlawn Park, Chicago.
 Knowlton, James E., Damariscotta, Lincoln County, Maine.
 Logan, F. G., 5 Board of Trade, Chicago.
 Missouri State exhibit.
 Maudslay, Alfred P., 11 Park Lane, London, W., England. Individual Foreign exhibit. Central America.
 Mexico Government exhibit. Foreign.
 New York State exhibit.
 New South Wales, Government exhibit. Foreign.
 Potter, Armond de, 645 Broadway, Albany, N. Y. Individual Foreign exhibit. Egypt.
 Peru, Government exhibit. Foreign.
 Riggs, C. W., 14 Madison street, Memphis, Tenn.
 Smith, Harlan J., Saginaw, E. S., Mich.
 Spain, Government exhibit. Foreign.
 Thompson, Edward H., United States Consulate, Merida, Yucatan. Individual Foreign exhibit. Central America.
 Utah, State exhibit.
 Wyman, Walter Channing, for Wyman Brothers, Union League Club, Chicago.
 Wisconsin, the State Historical Society of.
 Peabody Museum of American Archæology and Ethnology, Cambridge, Mass.
 Ayer, Edward E., Chicago.
 Hayssen, Dr. Henry H., New Holstein, Wis.
 Ohio Archæological and Historical Society, Columbus, Ohio.
 Linton, Mrs. Elwina, 35 Wall street, New York.
 Peralto, Josi Alejandro, Bishop of Panama. Department of Ethnology, under the direction of F. W. Putnam, chief.
 Wankel, H., Olmutz, Moravia.
 British Guiana, Government exhibit. Foreign.
 New York State exhibit.
 Hunt, George H., Oldtown, Maine.
 Colorado State exhibit.
 Department of Ethnology, under the direction of F. W. Putnam, chief.
 Dept. of Eth., U. S. Ind. Sec. of phys. Anth.
 Earl Barnes, Leland Stanford University, Palo Alto, Cal.
 F. Boas, Chicago, Ill.
 H. P. Bowditch, Boston, Mass.
 Felt & Tarrant, Chicago, Ill.
 E. Hitchcock, Amherst, Mass.
 Narragansett Machine Co., Providence, R. I.
 W. F. Porter, St. Louis, Mo.
 G. F. Peckham, Supt. Public Schools, Milwaukee, Wis.
 Peabody Museum of American Archæology and Ethnology, Cambridge, Mass.
 D. A. Sargent, Cambridge, Mass.
 State Board of Health of Massachusetts.
 University of Chicago, Chicago, Ill.
 M. Anna Wood, Wellesley, Mass.
 G. M. West, Chicago, Ill.
 Ward's Natural Science Establishment, Rochester, N. Y.
 Webb's Adder Co., New York, N. Y.
 Dept. of Ethnology; Foreign Countries; Individuals; Sec. of Physical Anthropology.
 John Beddoe, Bedford-on-Avon, England.
 A. Corre, Paris, France.
 Cambridge Scientific Instrument Company, Cambridge, England.
 J. Kollman, Basel, Switzerland.
 Bannwarth, Berne, Switzerland.
 L. Manouvrier, Paris, France.
 J. Ranke, Munich, Germany.
 E. Schmidt, Leipzig, Germany.
 Berliner Gesellschaft für Anthropologie, Ethnologie und Urgerchiet, Berlin, Germany.
 R. Virchow, Berlin, Germany.
 Tambelli, Turin, Italy.
 C. E. Beaver.
 I. W. Blackburn, Government Hospital for the Insane, Washington.

DEPARTMENT M.—ETHNOLOGY, ARCHÆOLOGY.

- S. H. Champlin, College of Physicians and Surgeons, Chicago.
 James B. Bullitt, Louisville, Ky.
 F. X. Dercum, Philadelphia, Pa.
 H. H. Donaldson, Neurological Laboratory, University of Chicago.
 William Fuller, Grand Rapids, Michigan.
 L. Hektoen, Chicago, Ill.
 C. F. Hedge, Clark University, Worcester, Mass.
 M. H. Knap, Chicago, Ill.
 Lea Bros. & Co., Philadelphia, Pa.
 J. Leeb, Physiological Laboratory, University of Chicago.
 H. M. Lyman, Rush Medical College, Chicago, Ill.
 F. T. Miles, Baltimore, Md.
 Hugo Münsterberg, Harvard University, Cambridge, Mass.
 W. P. Northrup, New York, N. Y.
 M. Allen Starr, College Physicians and Surgeons, New York, N. Y.
 C. A. Strong, Psychological Laboratory, University of Chicago.
 Truax, Greene & Co., Chicago, Ill.
 W. F. Whitney, Harvard Medical School, Boston, Mass.
 B. G. Wilder, Cornell University.
 C. O. Whitman, Morphological Laboratory, University of Chicago.
 Isaac N. Kerlin, Elwyn Institute, Pennsylvania.
 L. Manouvrier, Societe d'Anthropologie, Paris, France.
 R. W. Reid, University of Aberdeen, Scotland.
 F. O. Schultze, University of Würzburg, Germany.
 G. Schwalbe, Strasburg, Germany.
 Adolph Zeigler, University of Freiburg, Germany.
 H. Vievordt, Lübingen, Germany.
 Johannes Ranke, Munich, Germany.
 Berliner Gesellschaft für Anthropologie, Ethnologie und Urgeschichte.
 Max Kohl, Chemnitz i-S, Germany.
 Stoerhrer & Sohn, Leipzig, Germany.
 R. Rothe, Prague, Wenzelsbad, Austria.
 F. Majer, Strassburg i-E, Germany.
 Wilhelm Petzold, Leipzig, Germany.
 R. Jung, Heidelberg, Germany.
 Kagenaar, Utrecht, Holland.
 Carl Krille, Leipzig, Germany.
 Leppin & Masche, Berlin, Germany.
 Emil Sydow, Berlin, Germany.
 Wilhelm Walb, Heidelberg, Germany.
 E. Zimmerman, Leipzig-Gohlis, Germany.
 H. Elbs, Freiburg i-B, Germany.
 Mariaud, Paris, France.
 P. Roulot, Paris, France.
 Charles Verdin, Paris, France.
 Cretes, Paris, France.
 D. J. Cunningham, University of Dublin, Dublin, Ireland.
 Eberstaller, University of Graz.
 Exner, University of Vienna, Vienna, Austria.
 Giacomini, University of Turin.
 Victor Horsley, University College, London, England.
 Jung, Heidelberg, Germany.

SECTION OF NATURAL HISTORY.

INDIVIDUAL EXHIBITORS.

- Agassiz Association, St. Louis, Mo.
 Bradley, A. H., Helena, Mont.
 Boehm, Albert, 408 Oakland street, St. Louis, Wis.
 Canada Government exhibit. Foreign.
 North Dakota State exhibit.
 Hart, W. W., & Co., 5 West Third street, New York.
 Kaempfer, Fred, 47 East Madison street, Chicago.
 Lattin, Frank H., Albion, N. Y.
 Missouri State exhibit.
 Maine State exhibit.
 New York State exhibit.
 Ohio State exhibit.
 Pennsylvania State exhibit.
 Stanisky, Gustav, & Co., 2346 Wabash avenue, Chicago.
 Stiles, Leander, 2533 Wabash avenue, Chicago.
 Sowdon & Webster, 738 Broadway, New York.
 Tolhurst, F. B., Livingstone, Mont.
 Vaughan, Mrs. Carrie Shields, Natchez, Miss.
 Ward's Natural Science Establishment, 16-26 College avenue, Rochester, N. Y., by Henry A. Ward, President.
 Warembath, Samuel, Tenafly, N. J.
 Colorado State exhibit.
 Fuchs, Louis, 614 N Street, Belleville, Ill.
 Gurley, Wm. F. E., Danville, Ill.
 Putnam, Esther, O., Cambridge, Mass.
 Sguyer, Homer, Mingusville, Mont.
 Indiana State exhibit.
 Hayssen, Dr. Henry H., New Holstein, Wis.

SECTION OF HISTORY.

INDIVIDUAL EXHIBITORS.

Palestine Exploration Fund, London, England. Foreign, Palestine.
 Beeker, Frank, 706 South Washington Square, Philadelphia, Pa. Individual Foreign exhibit, France.
 Bourilin, Dimetrius, Ivanovovo Voznesensn, Russia. Individual Foreign exhibit, Russia.
 Bruegger, Gustav, Pullman, Ill. Individual Foreign exhibit, Swiss.
 Chute, James M., 14 Cedar street, Somerville, Mass.
 Farquhar, A. B., Harrisburg, Pa.
 Hayssen, Dr. Henry H., New Holstein, Wis.

Hooper, W. S., 638 W. Monroe street, Chicago, Ill.
 Joensch, Max A., Wahoo Brewery, Wahoo, Neb. Individual Foreign exhibit, European.
 Kelso, Tessa L., Public Library, Los Angeles, Cal.
 Kimball, W. S., Rochester, N. Y.
 Lloyd, Wm. Maretta, Schullsburg, Wis.
 MacDonald, A. E., 517 South Normal Parkway, Englewood, Ill.
 Luxton, G. H., 196 Oak street, Chicago, Ill.
 Ohio Archaeological and Historical Society, Columbus, Ohio, State exhibit.
 Spriestersbach, William, Pittsburg, Pa.
 Wisconsin State Historical Society, State exhibit.

SECTION OF ETHNOLOGY.

INDIVIDUAL EXHIBITORS.

Angevine, M. H., Fort Yates, North Dakota.
 Calvo, J. B., 1616 Nineteenth street, N. W., Washington, D. C. Individual exhibit. Foreign, Costa Rica.
 Dyer, D. B., Kansas City, Mo.
 Grabill, John H., 113 Adams street, Chicago.
 Gunning, R. J., 79-83 Van Buren street, Chicago.
 Henderson, Alice Palmer, 2301 Clinton avenue, Minneapolis, Minn.
 Haupt, Herman, Jr., 606 Rialto Building, Chicago.
 Johnstone, Capt. R. S., New Travelers' Club, 97 Piccadilly, London, W. England. Individual foreign exhibit, Lagos, W. Africa.
 Kinney, Louise Catlin, 1730 K street, Washington, D. C.
 Kunz, George F., Tiffany & Co., Union Square, New York.
 Lawrence, G. A., Jocko, Montana.
 Lees, William, Egerton Villa, Heywood, Lancashire England. Individual Foreign exhibit, Japan.
 Lindle, John A., Albert-Lea, Minn. Individual Foreign exhibit, Sweden.
 Mead, H. Kimmington, Pinches Creek, Alta, N. W. T., Canada.
 McMillan, J., 91 W. Madison street, Chicago. Individual Foreign exhibit, West Africa.
 Mexico Government exhibit. Foreign.
 Royal Natural History Museum, Vienna, Austria. Foreign.
 New York State exhibit.
 New South Wales Government exhibit. Foreign.
 Paraguay Government exhibit. Foreign.
 Babcock, Oliver M., 1401 Washington boulevard, Chicago.
 British Guiana Government exhibit. Foreign.

Remengi, E., LaGrange, Ill. Individual Foreign exhibit, Tulas of East Africa and Madagascar.
 Russia, Government exhibit. Foreign.
 Shutleff, Harvey, 828 Polk street, Chicago, Ill.
 Swan, James G., Port Townsend, Wash.
 Spain, Government exhibit. Foreign.
 Utah State exhibit.
 Waterman, Henry B., 3436 Rhodes avenue Chicago. Individual Foreign exhibit, Japan and East Indies.
 Museum für Volkerkunde, Leipzig.
 Anthropologische Gesellschaft, Vienna.
 K. K. Naturhistorisches Hofmuseum, Vienna.
 K. Museum für Volkerkunde, Berlin, Germany.
 Fletcher, Alice C., Washington, D. C.
 Nuttall, Zelia, Dresden, Germany.
 Department of Archæology and Palæontology, University of Pennsylvania, Philadelphia.
 Egyptian section, Department of Archæology and Palæontology, University of Pennsylvania, Philadelphia. Mrs. Cornelius Stevenson, curator.
 Milton Bradley Co., Springfield, Mass.
 Lady Charlotte Schreiber, 17 Cavendish Square, London, England.
 Brunswick Balke-Collender Co., Chicago, Ill.
 W. H. Wilkinson, Esq., H. B. M. Consul, Swatow, China.
 Mr. C. Howard Colkel, 1334 Walnut street, Philadelphia.
 Library of the University of Pennsylvania, Philadelphia.
 Mr. Stewart Culin, University of Pennsylvania, Philadelphia.
 The Numismatic and Antiquarian Society of Philadelphia, Philadelphia.

DEPARTMENT M.—ETHNOLOGY, ARCHÆOLOGY.

Mrs. Stewart Culin, 105 South Twenty-second street, Philadelphia.
 Dick & Fitzgerald, New York City.
 Mrs. I. K. Van Rensselaer, 40 E. Twenty-ninth street, New York City.
 McLaughlin Bros., 871 Broadway, New York City.

Mrs. E. A. P. de Gueirero, 260 South Ninth street, Philadelphia.
 Mr. H. C. Thomas.
 Mr. Charles E. Dana, DeLancy Place, Philadelphia.

AUSTRIA.

GROUP 171.

1. **Collective Exhibit of the following Austrian inventors:** C. Back, Vienna; S. Bohac, Vienna; Joachim Brenner Freiherr von Schloss Gamfahn, near Vienna; Fr. Cuhel, Dr., Prague; Rudolf Dolezal, Prague; Feitzinger & Co., Vienna; Josef Fischer, Vienna; S. B. Hawes, Dr., American Consul at Reichenberg (Bohemia); E. S. Heller, Tglan (Moravia); Baldwin Hellers Sones, Teplitz (Bohemia); O. L. Ritter von Slanor, Lee-Villa am Attersee (Upper Austria); Robert B. Sentsch, Ingenieur, Vienna; G. Joseph's Erben, Bielitz (Silesia); Julius

Katz, Vienna; Karl Kellner, Vienna; Richard Klimger, Ingenieur, Vienna; K. Krivanc & Co., Prague; Theodor Langer, Ingenieur, Vienna; Alois von Luttrotti, Podsed und Vienna; Ferdinand Ritter von Manlicher, Oberingenieur, Vienna; Franz Michel K. K. Hoftischler, Vienna; Johann Nadler, Vienna; Fr. Pohl, Tetschen a Elbe; Adolf Rack, Vienna; Jenny F. W. Schindler, Kemsmelbach, near Brengenz; Alois Schneider, Mariaschein (Bohemia); Wilhelmine Semler, Vienna; Ottokar Skriván, Prague; Anton Springer, Kasten (Lower Austria); Rudolf Tanczos, Vienna; Johann Weissenbeck & Co., Vienna, and Alois Winkler & Co., Vienna.

CANADA.

GROUP 167.

1. **Daly, Alexander F., Montreal.** Mariner's compass. 953

GROUP 173.

2. **Love, W. H., St. John, N. B.** Shield of military buttons.

GROUP 174.

3. **Burt, R. C., Chatham, Ont.** Indian curiosities. 960
 4. **Canadian Government (Department of Indian Affairs).** Ottawa, Ont. Indian exhibits. 960

CEYLON.

GROUP 160.

1. **Ceylon Commission.** Models of Vedda man and woman, with articles used by them. 943
 2. **Ceylon Commission.** Baskets. 943

GROUP 162.

3. **Ceylon Commission.** Model of brick, tile, lime and pottery kilns. 949

GROUP 163.

4. **Ceylon Commission.** Games.
 5. **Colombo Museum.** Olinda pad.

GROUP 164.

6. **Ceylon Commission.** Figure of Buddhist monk, devil-dancers' masks.
 7. **Chas, W., Appuhami.** Bronze Buddha.
 8. **Colombo Museum, Ceylon.** Dagoba and model of Buddha's tooth.

GROUP 169.

9. **Ceylon Commission.** Model of Sinhalese hut with articles of daily use.

GROUP 171.

10. **Ceylon Government (presented by the Sultan).** Articles illustrating the progress and conditions of life in Ceylon.

DENMARK.

GROUP 159.

1. Petersen, Magnus, Copenhagen. Archæological engravings. Dept. L

GERMANY.

GROUP 164.

1. Ferlings, F., Crefeld. Ecclesiastical vestments and textures.
2. Fischer, Carl, Munich. Colossal crucifix; images of saints.
3. Fischer, Th., Crefeld. Images of saints on copper plates.
4. Frey, Johann, Munich. Madonna with infant.
5. Gotzes, Th., Crefeld. Ecclesiastical objects and textures.
6. Hartmann, Albert, vorm. L. Biwus, Augsburg. Enameled cups and vases.
7. Hellner, Fritz, Xaver, Kempen. Ecclesiastical vessels of all kinds.
8. Krieg, Josef, Freiburg-Baden. Ecclesiastical vestments.
9. Lang, Gg. sel. Erben, Oberammergan. Crucifixes, religious groups, altar, etc.
10. Leser, Jakob, Straubing. Gothic monstrances and rococo monstrance.
11. Mayer & Co., Munich. Ecclesiastical outfit.
12. Ortmann, Josef, Firma Al. Kronnenbitter, Munich. Cups and silver vessels.
13. Osiander, Geschwister, Ravensburg. Embroidered robes of gold brocade.
14. Photographische Gesellschaft, Berlin. Reproductions of religious pictures.
15. Rieppel, Marianne, Firm. Ferd. Rieppel, Munich. Embroidered mass robe, etc.
16. Riesenhuber, Alois, Munich. Altar, sacred figure.
17. Rietzler, F. X., Munich. Ecclesiastical figures.
18. Schaidhauf, Johann, Munich. Altars.
19. Schuelter, Th., Cologne. Statues, images.
20. Schreibmayer, T. G., Munich. Embroidered ecclesiastical robe.

21. Wasinger, Anton, Munich. Virgin Mary; holy water basins.
22. Werner, Franz P., Munich. Ecclesiastical banners, etc.
23. Wolf, Barbara Frll., Munich-Neuhausen. Designs for ecclesiastic embroideries.
24. Zorns, Auzmann, Augsburg. Rosa-ries.

GROUP 165.

25. Assu, Otto, Munich. Ancient artistic goblets.
26. Reinhold, Karl, Jr., Munich. Miniature historical costume figures with arms.
27. Schwarzenberg, C., Munich. Reproductions of ancient arms and armors.

GROUP 168.

28. Nebelacker, Joseph, Ludwigshafen-on-the-Rhine. Model of the interior of Roman house.

GROUP 169.

29. Deutsche Ethnographische Ausstellungs-Gesellschaft, Berlin. German village.
30. Ministerium fuer Elsas-Lohringan, Stranburg-Alsace. Relief model representing the vicinity of Sewen.
31. Uebelacker, Joseph, Ludwigshafen-on-the-Rhine. The Castle of Heidelberg before its destruction.

GROUP 170.

32. Keidel & Co., Berlin. German inventions of various kinds.

GROUP 171.

33. Niebler, Alois, Munich. Ancient German chairs and table. 954

ITALY.

GROUP 168.

- | | |
|---|---|
| 1. Finzi, Giuseppe, Venice. Ancient artistic objects. | 2. Manfredi-Frattarelli, Antonio, Rome. Ancient marble reservoir. |
|---|---|

NORWAY.

GROUP 166.

1. Norwegian Commission. Viking ship "Norwegian," an exact reproduction of the vessel exhumed in 1880 from a mound at Gogstad, near Sandefjord, Norway, now preserved in the university at Christiania and known as the Gogstad-ship.¹ In a sepulchre built in the vessel were found

human remains, and it is supposed by archaeologists that the vessel was buried with its Viking-chief in the mound, about the year 900. The fac-simile sailed from Norway via New York to Chicago, under the command of Capt. Magnus Anderson.

SWEDEN.

GROUP 159.

1. Nordenskiöld, G., Jr., Stockholm. Model of an estufa and photographs of cliff dwellings of Colorado. 941

GROUP 165.

2. Battzer, C. E. L., Gothenburg. Rock engravings of Bohuslan, Sweden; cartoons, etc.
3. Beskow, Bernhard, Gothenburg. Old Scandinavian ornaments; scenes from Viking life; barrow with runic stone.
4. Bcoattins, C., Gothenburg. Models, maps and engravings on Central American archaeology.

GROUP 166.

5. Beskow, Bernhard, Gothenburg. Viking ship.

GROUP 167.

6. Nordenskiöld, A. E., Stockholm. Copies of maps and globes of sixteenth century. 951

GROUP 168.

7. Rosman, Sven, Wisby. Model of the Church of the Holy Ghost at Wisby.

GROUP 172.

8. Adelberg, Miss Ottilia, Stockholm. Original drawings.
9. Ahlborn, Mrs. Led, Stockholm. Carved show-case with escutcheons; bronze reliefs; medals.
10. Ahrberg, Mrs. Ebba, Upsala. Antimacassars and sofa and chair covers in guipure lace work.
11. Bergstrom, Miss Therese, Stockholm. Carved portfolio, renaissance style.
12. Boberg, Mrs. Anna, Stockholm. Imitation gobelin decorative painting.
13. Boklund, Miss Cecilia, Stockholm. Painted glass window.
14. Brunsson, Miss Johanna, Stockholm. Portiere.
15. Committee of Swedish Ladies, Stockholm. History and statements of the social position of women in Sweden; statistics of female students at University of Sweden; women's work in schools, public service, trade, industry, hospitals, philanthropy, etc.; works and portraits of female Swedish authors, artists and musicians; album of female art-industry.
16. Gisberg, Miss Sofia, Stockholm. Specimen of illuminating.

17. Handarbetets Vanner, Stockholm. Hangings, draperies, cushions, tapestries, carpets, screens, counterpanes, embroideries, etc.

18. Holck, Miss Helene, Stockholm. Vases of Assyrian and old Scandinavian style.

19. Ingstlotz, Miss Aurord, Wadstena. Pillow lace.

20. Kulle, Mrs. Thora, Lund. Swedish royal arms and counterpane.

21. Lindgren, Miss Hilda, Gothenburg. Portrait of H. R. M. the Queen of Sweden.

22. Lindberg, Miss Lydia, Stockholm. Portfolio of embossed leather.

23. Lundin, Hulda, Stockholm. Articles made by public school children, showing system of teaching needle-work.

24. Menkow, Miss Gustava, Stockholm. Portfolio and Bible cover of embossed leather.

25. Nilsson, Miss Emilie, Wermland. Linen towels.

26. Nordquist, Miss Marianne, Stockholm. Portfolio of embossed leather.

27. Olsson, Miss Bengtra, Bjerrod. Gobelin tapestry.

28. Olsson, Mrs. Cilluf, Kjöfänge. Linen hangings and table cover.

29. Pettersson, Mrs. Hilda, Stockholm. Glass etchings and designs, cups, etc.

30. Randel, Miss Ch., Wadstena. Pillow lace and silk embroidery.

31. Retzius, Mrs. Anna, Stockholm. Plaster bust of Fredrika Bremer.

32. Schuberth, Mrs. Mathilda, Elfsjö, Stockholm. Embroidered handkerchief.

33. Svensk Konstlörd Utställning, Stockholm. Folding screens in Icelandic style.

34. Wengberg, Miss Clara, Helsingborg. Lace border for handkerchief.

35. Widsbeck, Misses Maria and Wastberg, Stockholm. Psalms in church-text on parchment.

36. Zickerman, Miss Lilli, Skofde. Embroidered portiere.

GROUP 173.

37. Nordiska Museet, Stockholm. Figures representing peasant costumes; interior of cottage; incidents in peasant life.

38. Svenska Turistforeningen, Stockholm. Exhibit showing Swedish nature and culture, development of transportation, money-system, topography, the press decorative orders, sports, athletics, etc.

PAPER FOLDING MACHINERY



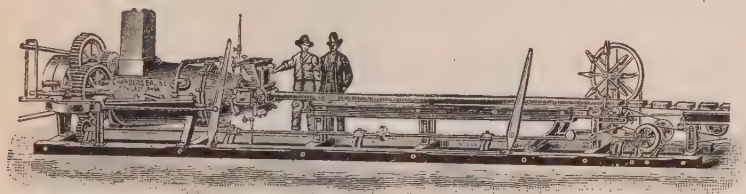
For Fine Book
and Pamphlet
Work,
Periodical Folders.

MANUFACTURED BY

CHAMBERS BROTHERS COMPANY,
PHILADELPHIA, PA., U. S. A.

MONTAGUE & FULLER, GENERAL AGENTS,
NEW YORK AND CHICAGO.

BRICK MAKING MAGHINERY

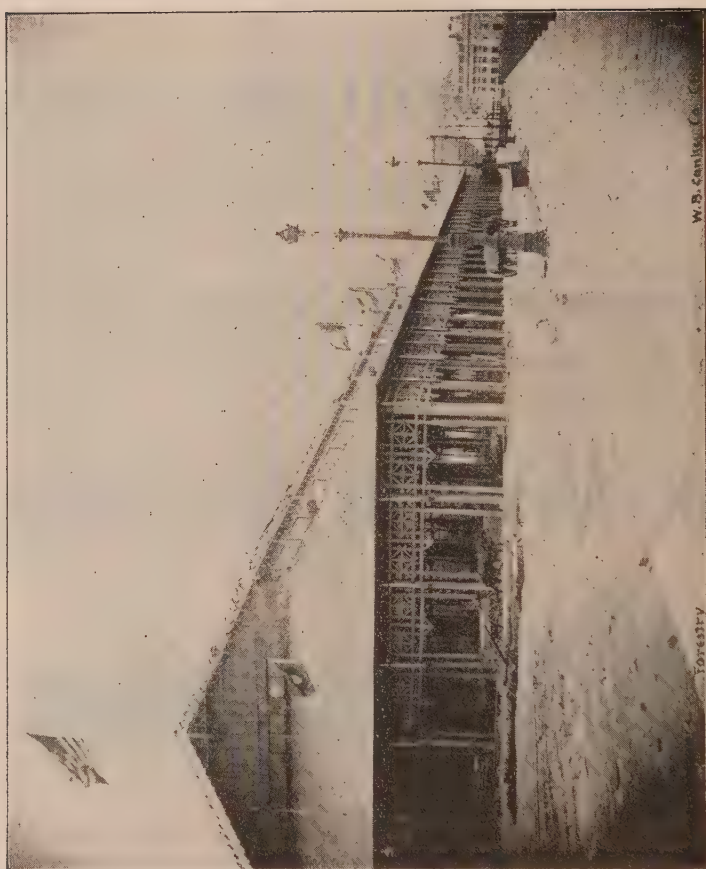


The Most Complete and Automatic Machinery for the production of
large quantities of Common Building Brick.

Single Machines make from 10,000 to 100,000 bricks per day.

CHAMBERS BROTHERS COMPANY,
PHILADELPHIA, PA., U. S. A.

CHICAGO WAREROOM, 203 SOUTH CANAL STREET.



FORESTRY BUILDING.

W. B. Carter, Co. 18

Forestry

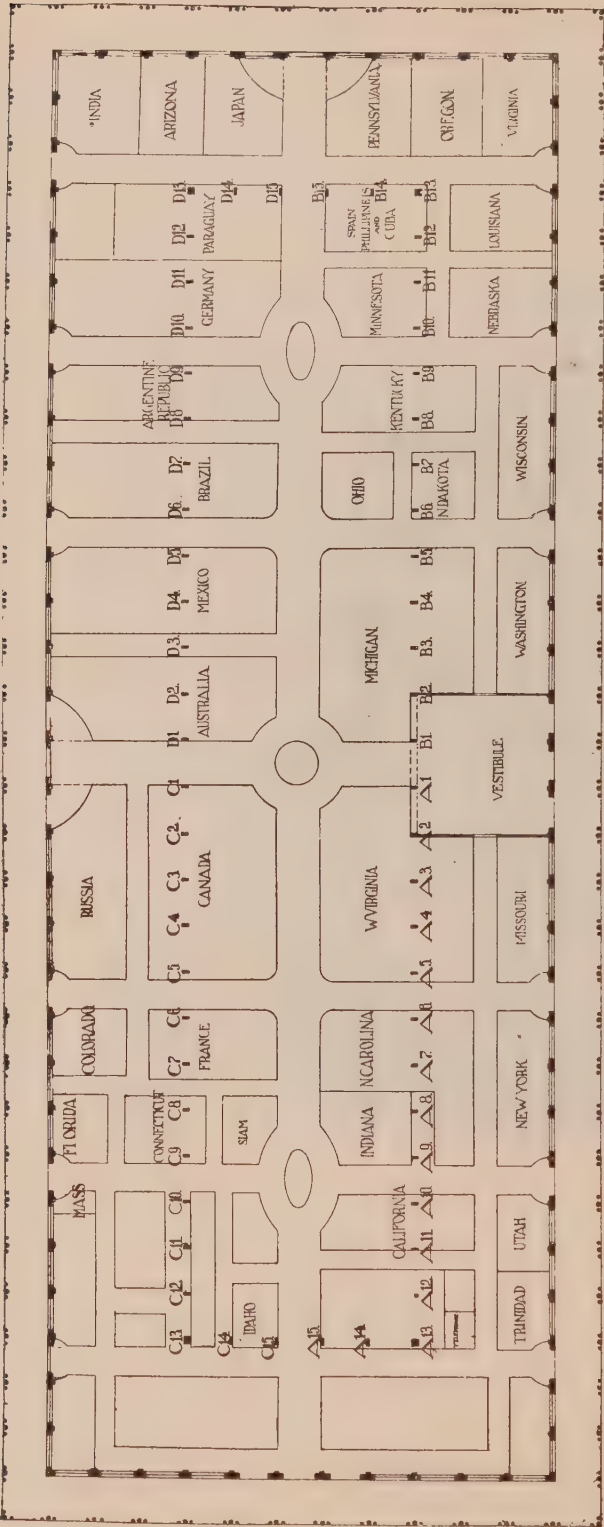
DEPARTMENT N—FORESTRY.

THE forest resources of the world are exhibited in the Forestry Building, which is one of the most interesting and unique structures on the grounds. It is made of wood and has a colonnade composed of tree trunks sent from almost every State in the Union. For instance: Arkansas furnished pine, white oak, red oak and sassafras; California, sugar pine, redwood and trunks of the young sequoia; Delaware, red cedar, white oak and white ash; Kansas, burr oak, hickory, huckleberry, sycamore and walnut; Minnesota, white pine, sugar maple, ash, oak, cottonwood, spruce, box cedar, tamarack and elm; Wisconsin, pine, white oak, basswood, elm, birch and spruce. Vestibule of yellow pine, artistic in design and erected by the Southern Lumber Manufacturer's Association has been constructed at the main eastern entrance. It is located in the south-eastern portion of the grounds and its dimensions are 200 by 500 feet, height of sixty feet. Surrounding the building is a spacious portico each of the columns of which is a trunk in their natural state contributed as stated above by the various States, Territories and Canada, characterizing their woods. Each trunk contains a tablet, on which is engraved the name of the State, Territory or Province, furnishing an estimate when furnished of the quantity of such timber standing thereon. The sides, windows and flag-staffs bear foreign governments are on all sides of the building.

The exhibits comprised in group 19 of the official classification embrace a variety of forest products including samples of wood and timber; ornamental woods, dye-woods, barks and vegetable substances; gums and resins; medicinal roots and herbs; wood pulp, paper and wooden ware; seed collections; statistics of the lumber trade and of forestry, etc., the whole being of great interest to visitors.



SUPT. L. M. EVANS.



COPYRIGHTED 1893,
BY THE
WORLD'S COLUMBIAN EXPOSITION
FOR THE EXCLUSIVE USE OF
W. B. CONKEY COMPANY,
CHICAGO.

REFERENCE PLAN FOR LOCATING EXHIBITS
IN THE FORESTRY BUILDING
WORLD'S COLUMBIAN EXPOSITION

KEY TO INSTALLATION.

For the purposes of installation of exhibits in the Forestry Building, the floor is laid off in sections lettered A, B, C and D. Beginning at the north entrance a main aisle runs through the center of the building. To the left, beginning at the center, sections are lettered A and numbered from 1 to 13 northward. To the right they are lettered C and numbered from 1 to 13 northward. Starting from the center again the sections to the right are lettered B and numbered from 1 to 13 southward, and to the left they are lettered D and numbered from 1 to 13 southward.

CLASSIFICATION.

FOREST AND FORESTRY DEPARTMENT (N).

GROUP 19.

FORESTRY, FOREST PRODUCTS.

- Class 99. Logs and sections of trees; samples of wood and timber of all kinds generally used in construction or manufactures, either in the rough or hewed, sawed or split, including square timber, joists, scantling, plank and boards of all sizes and kinds commonly sold for building purposes. Also ship timber, as used in ship-building, or for masts and spars; piles, timber for fencing, for posts, for paving or for timbering mines. Miscellaneous collections of wood.
- Class 100. Worked timber or lumber, in form of clapboards, shingles, sheathing or flooring casings, moldings, stair rails or parts of furniture.
- Class 101. Ornamental wood used in decorating and for furniture; veneers of hard and fancy woods; mahogany logs, crotches and veneers; rosewood; satin-wood, ebony, birds-eye maple, madrona, black walnut veneers and other fancy woods suitable for, and used for ornamental purposes.
- Class 102. Timber prepared in various ways to resist decay.
- Class 103. Dyeing, tanning and coloring—dye-woods, barks, and various vegetable substances in their raw state, used for dyeing and coloring, such as logwood, Brazil wood, peach wood, fustic, sumac.
Barks of various kinds, Brazilian, acacias, oak, hemlock, murici, bicida, gordonia.
Galls, excrescences and abnormal woody products. Mosses used for dyeing and coloring.
- Class 104. Cellular substances—corks and substitutes for cork of vegetable growth; porous woods for special uses, pith, rice-paper, etc.
- Class 105. Lichens, mosses, pulu, ferns and vegetable substances used for bedding, for upholstering, or for mechanical purposes, as teasles, Dutch rushes, scouring grass, etc., "Excelsior."
- Class 106. Gums, resins, vegetable wax or tallow wax, including caoutchouc, gum senegal, tragacanth, Arabic, mesquite gum, myrrh, copal, etc.
- Class 107. Seeds and fruits, for ornamental purposes; vegetable ivory, coquilla nuts, cocoa-nut shells, ganitrus beads, bottle gourds, etc.
- Class 108. Medicinal: roots, herbs, barks, mosses, berries, etc.
Miscellaneous products.
- Class 109. Wood pulp, for making paper and other objects.
- Class 110. Paper and wooden ware generally, as pails, tubs, platters, brooms, coopers' stock.
- Class 111. Basket industry—willow-ware, etc.
- Class 112. Rattan, bamboo and cane work in part. (For rattan furniture, see also Group 90.)
- Class 113. Forest botany—distribution of forests, of genera, of species (maps).
Wood sections and herbarium specimens of the economically important timber trees.
Seed collections, not herbarium, etc.
Illustrations of forest growth, typical trees, botanical features.
Anatomy and structure of woods. (Veneer sections and photo-micrographs.)
Peculiarities of forest growth—Cypress-knees, burls.
Diseases of forest trees and timber. Injurious insects.
- Class 114. Timber culture—Plant material—Conifers, seedlings, and transplants.
Broad-leaved trees. Seedlings, transplants of various sizes, cuttings.
Seed collections and means for storing seed.
Means employed in gathering and preparing seed and other plant material for the market, and seed testing.
- Class 115. Timber culture and cultivation—Implements for the cultivation of the soil. Special adaptations.
Sewing machines and tools.
Implements and machines used for planting.
Implements used in after-culture. Means of protection against insects, animals, climate.
Seed-beds and other graphic illustrations of nursery practice.
- Class 116. Forest management—Maps, plans, illustrations, calculations illustrating forest management.
Instruments for measuring standing timber.
Growth of different ages and soils. Graphic or other illustrations showing rate of growth. Graphic or other illustrations showing influence of various managements on tree-growth.
Statistics of lumber trade and of forestry.

- Exhibits showing relation of forests to climate.
Literature and educational means.
- Class 117. Lumbering and harvesting of forest products. The lumbering industry. Logging and transportation. Implements, machines, plans, drawings, and statistical material. Loggers' tools, stump-pulling devices, marking devices, measuring tools. Loading devices, sleds, flumes, slides, rope tram-ways, railroads, methods of water transportation, rafts, booms, etc.
The tan-bark industry. Other barks.
The turpentine industry.
The charcoal industry.
- Class 118. Preparation and manipulation of lumber. Dressing, shaping and preparation of wood. Hewing of logs, spars, etc. Shaping of knees. Sawing and milling.
Drying and seasoning of wood, kiln-drying, steam-bending, etc.

Department N.--Forestry and Forest Products.

UNITED STATES.

GROUP 19.

1. Albro, E. D., Co., Cincinnati. Cabinet woods and veneers. 101
2. Armstrong Bros. & Co., Pittsburg. Cork specialties. 104
3. Berry Bros., Detroit, Mich. Redwood plank. 99
4. Compound Lumber Co., Chicago. Hardwood doors. 100
5. Garrison Wood Turning Co., Chicago. Balusters, spindles and wood turnings, etc. 100
6. Hartwell, Edwin S., Chicago. Lumber and shingles. 100
7. Jesup, Morris K., New York. Native woods. 100
8. Korbel, F., & Bros., San Francisco. Redwood tanks. 110
9. Ludington Woodenware Co., Ludington, Mich. Woodenware. H-59 110
10. Mathieu, Josephine, Chicago. Apparatus for manufacturing charcoal, wood alcohol, etc. 108
11. McCready, R. W., Cork Co., Chicago. Cork and cork handles. 104
12. National Ladder Co., Clyde, Ill. Woodenware. 110
13. Oshkosh Logging Tool Co., Oshkosh, Wis. Loggers and lumbermen's tools. 117
14. Piedmont Pulp & Paper Co., Piedmont, W. Va. Wood fibre and paper. 109
15. Redlich M'fg Co., Chicago. Cork and woodenware. 104
16. Richmond Cedar Works, Richmond, Va. Woodenware. 110
17. Richardi & Bechtold, Bellaire, Mich. Household woodenware. 110
18. Seaman, Cox & Brown Cooperage Co., Chicago. Coopers' stock. 110
19. Stein, Hirsch & Co., Chicago. Gums. F-D-8 Dept. A 106
20. Two Rivers M'fg Co., Two Rivers, Wis. Wooden tubs and pails. 110
21. United Indurated Fibre Co., Chicago. Pails, washtubs, measures, basins, vases, etc. 110
22. Vanderbilt, Geo. W., New York. Working plans of forests with maps, photographs and products. 116
23. Wood, Mrs. Eliza A., Easton, N. Y. Mop pail. 110

INDIANA.

GROUP 19.

1. Board of World's Fair Managers, Indianapolis, Ind. Specimens of native woods. 99

2. Board of World's Fair Managers, Indianapolis. Maps, showing distribution, charts, showing relative amounts of most important forms. 113
3. Indiana Novelty Co., Plymouth. Exhibit of hardwoods. 99

KENTUCKY.

GROUP 19.

1. Abbott, J. H., Louisa. Rhododendron. 99
2. Allen, A. W., Glasgow. Paw-paw. 99
3. Arnold, S. M., Greenville. Locust. 99
4. Asher Lumber Co., Ford. Birch. 99
5. Atkins, L. S., Louisa. Laurel. 99
6. Atkinson, John B., Earlington. Oak. 99
7. Bain, E. R., Campbellsville. Cherry. 99
8. Ballentine, Henry, Rumsey. Osier. 99
9. Bassett, R. J. & Bro., Litchfield. Gum. 99
10. Big Sandy Lumber Co., Catlettsburg. Pine. 99
11. Black, Q. D., Barboursville. Oak. 99
12. Blain & Bond, Caneyville. Pine. 99
13. Brady, J. J., Morehead. Service berry. 99
14. Breckenridge Co., Cloverport. Balm gilead. 99
15. Broas, R. M., Ashland. Oak. 99
16. Buckner, S. B., Rio. Oak. 99
17. Busle & Curran, Lexington. Alianthus. 99
18. Bussey & Webb, Louisa. Magnolia. 99
19. Cahorn, J. M., Hadley. Gum. 99
20. Campbell, Geo. W., Bowling Green. Oak and coffee tree. 99
21. Campbellsville Lumber Co., Campbellsville. Chestnut. 99
22. Carey & Marble, Owensboro. Walnut. 99
23. Castleman, John B., Louisville. Oak. 99
24. Chamberlain, J. B., Greensburg. Cedar. 99
25. Chicago Lumber Company, Ashland. Osage orange. 99
26. Choate, Wakefield, Frankfort. Ash. 99
27. Clark Planing Mills Co., Ashland. Box elder. 99
28. Cloves, Joseph, Sons, Frankfort. Oak. 99
29. Coale, Jarrett, Paw Paw. Plum. 99
30. Cobb, Rowland, Clay City. Pine. 99
31. Cole, Columbus, Woodbury. Beach. 99
32. Collins Lumber Co., Maysville. Mulberry. 99

DEPARTMENT N.—FORESTRY.

33. Collins & Murphy, Macedonia. Hazel-nut. 99
34. Coughton, J. T. & Bro., Frankfort. Hickory. 99
35. Cumberland Co., Middlesborough. Mulberry. 99
36. Davidson, V. A., Barboursville. Maple. 99
37. Dean & Barrockett, Flat Lick. Elm. 99
38. Dodge & Tarr, Lexington. Hackberry. 99
39. Elliott, Green, Barboursville. Maple. 99
40. Fagan, G. W., Pine Hill. Laurel. 99
41. Fiers, J. B., Bear Wallow. Sorrell. 99
42. Fuqua, J. A., Owensboro. Oak. 99
43. Gamble Bros. & Co., Louisville. Hickory. 99
44. Ganton, H. C., Mammoth Cave. Oak. 99
45. Gotliff & Chestnut, Corbin. Poplar. 99
46. Grundy, W. H., Bremen. Bass wood. 99
47. Hale, A. E., Flat Lick. Elm. 99
48. Hall, W. W., Redwine. Barberry. 99
49. Hamilton, W. G. & Co., Louisville. Chinquapin. 99
50. Hammond, J. & Co., Flat Lick. Elm. 99
51. Henry Cooling Lumber Co., Louisville. Hickory. 99
52. Hoge, Chas. E., Frankfort. Oak. 99
53. Hubbard, E. R. & Co., Middlesborough. Leather wood. 99
54. Hughes, W. J. & Co., Frankfort. Elder. 99
55. Hunter & Martin, Litchfield. Gum. 99
56. Ingram, Frank & Co., Louisville. Ironwood. 99
57. Ingram Lumber Co., Drakesboro. Thorn. 99
58. Johnson & Bowling, Guthrie. Gum. 99
59. Kelly, H. R., Barboursville. Maple. 99
60. Kentucky Lumber Co., Burnside. Cherry. 99
61. Keys Creek Planing Mill, Ashland. Hackberry. 99
62. Knott, J. Proctor, Frankfort. Chestnut. 99
63. Kountz, S., Frankfort. Oak. 99
64. Lanham & Bar, Lebanon. Sassafras. 99
65. Langley, Lewis, Clarkson. Pine. 99
66. Langstaff & Orme M'f'g, Paducah. Cypress and hemlock. 99
67. Lindsay, R. S., Newstead. Haw. 99
68. Lingut, John, Lexington. Buckeye. 99
69. Livezy, I. W. & Co., Newport. Birch. 99
70. Louisville Spoke Co., Louisville. Oak. 99
71. Louisville Stave & Lumber Co. Birch. 99
72. Lucas, F. M., Covington. Poplar. 99
73. Mammoth Cave R. R. Co., Mammoth Cave. Box of oak. 99
74. Maney, J. H., Paducah. Dogwoods. 99
75. Mark, M. B., Morehead. Birch. 99
76. Maysville M'f'g, Maysville. Oak. 99
77. McKeehan, E. Y., Corbin. Aspen. 99
78. Meacham, J. S. & Co., Gracey. Persimmon. 99
79. Meredith, Frederic, Bee Spring. Chestnut. 99
80. Moody, G. E. & Co., Louisville. Hornbeam. 99
81. Moore & Sullinger, Hartford. Gum. 99
82. Moriarty, P., Ashland. Holly. 99
83. Morton Bros., Drakesboro. Elm. 99
84. Nash, P., Milwood. Alder. 99
85. Northup, Jay H., Louisa. Chestnut. 99
86. Numnelly, G. H., Georgetown. Ash. 99
87. Ohio Scroll & Lumber Co., Covington. Sycamore. 99
88. Osbrow, J. F., Frenchburg. Ash. 99
89. Page, F. S., Glasgow. Paw-paw. 99
90. Parker, James, Bryant's Store. Bass-wood. 99
91. Payne & Graves, Ogden. Haw. 99
92. Peale, F. M., & Co., Carlisle. Pine. 99
93. Pence, W. S., Frankfort. Red bud. 99
94. Pioneer Lumber Co., Middlesborough. Pecan. 99
95. Preston, A., Richardson. Osier. 99
96. Pritchard, R. H., Catlettsburg. Oak. 99
97. Proctor, L. J., Glasgow Junction. Oak. 99
98. Proctor & Troutman, Louisville. Red birch. 99
99. Richards, A. E., Louisville. Chestnut. 99
100. Robinson, Warren, Louisa. Magnolia. 99
101. Ruby, J. E., Madisonville. Witch hazel. 99
102. Rule, P. S., & Co., Frankfort. Hickory. 99
103. Runyon, James, Ashland. Maple. 99
104. Saller, W. J., Danville. Thorn. 99
105. Shearman, H. C., & Co., Owingsville. Spice wood. 99
106. Shropshire, J. R., Georgetown. Ash. 99
107. Singer M'f'g Co., Cincinnati, Ohio. Walnut. 99
108. Slusher & Mitchell, Middlesborough. Alder. 99
109. Smallhouse, Chas. G., Bowling Green. Oak. 99
110. Soudy, J. H., Louisa. Magnolia. 99
111. Spotswood, E. H., & Son, Lexington. Magnolia. 99
112. Stamps, J. A., Bonnieville. Bass-wood. 99
113. Standard Planing Mill Co., Ashland. Maple. 99
114. Stevens, Geo. & Co., Greenup. Sturtia. 99
115. Stone, John E., Litchfield. Chestnut. 99
116. Stone, J. K., Newport. Sorrell tree. 99
117. Tamlin, J. E., Somerset. Willow. 99
118. Tarr Bros., Paris. Plum. 99
119. Templin & Co., Paris. Hawthorne. 99
120. Trig, H. C., Glasgow. Oak. 99
121. Vanmeter, Mrs. Mary, Bowling Green. Oak. 99

UNITED STATES.

122. Vanmeter, Chas. J., Bowling, Green. Oak. 99
 123. Watkins, N. M., Smithfield. Willow. 99
 124. Weather, T. J., Chilesburg. Pine. 99
 125. White, J. W., Millwood. Crabapple. 99
 126. White, W. M., Lawrenceburg. Fringe tree. 99
 127. Williams, W. J., Catlettsburg. Oak. 99
 128. Williamson & Bro., Lexington. Buckeye. 99
 129. Winstead, W. R., Grove Centre. Locust. 99
 130. Wood, Hunter, Hopkinsville. Oak. 99
 131. Woolsey, Joseph, Big Reedy. Sheepberry. 99
 132. Yellow Poplar Lumber Co., Ashland. Yellow poplar. 99

MISSOURI.

GROUP 19.

1. Beal, D. L., Varner. Red and scarlet oak. 99
 2. Bedford, Mr., Bloomfield. Elder. 99
 3. Blevins, Mr., Varner. Black oak, hercules club, service berry. 99
 4. Board of World's Fair Managers, Jefferson City. Blue ash, aspen, buckeye, catalpa, black wild cherry, dogwood, gum, hackberry, hickory, holly, linden, maple, pine, poplar, red bud, sassafras, willow, alder, bittersweet, blackberry, haw, brunnichia, rattan, Carolina rose, prairie rose, saw-briar, sheepberry, St. Johns-wort, strawberry bush, sumach, trachelospermum, trumpeter creeper, waahoo, wafer ash, wisteria, oak, buckthorn, button bush, chokeberry, cissus, corkwood, crabapple, cross vine, dewberry, elder, sparkleberry, forestiera, grape, greenbrier, wild hydrangia, arrowroot, itea, kinnikinnick, moonseed, pipevine, planetree, wild plum, raspberry. 113
 5. Boyden & Wyman, Meelyville. Gum, hackberry, hickory, silver maple, cow, white and willow oak. 99
 6. Buck, Mr., Bloomfield. Laurel and pin oak, black and white walnut. 99
 7. Dawson & Hunter, Henderson. Cypress, gum, red maple, oak, sycamore, cotton wood, burr oak. 99
 8. Eaton, L. A., Varner. Ash, birch, elm, hackberry, honey locust, mulberry. 99
 9. Harrison, Mr., Idalia. Beech, elm. 99
 10. Hogg, J. R., Poplar Bluff. Horn beam, persimmon, crabapple, hazel nut, poison ivy. 99
 11. Louis & Bubb, Doniphan. Pine. 99
 12. Poplar Bluff Lumber Co., Poplar Bluff. Black sugar maple, white oak, tulip tree. 99
 13. Scranton, R. A., Idalia. Holly. 99
 14. Ward Lumber Co., Whiting. Ash, red oak, pecan. 99
 15. Wilson, Mr., Idalia. Cucumber tree. 99

OHIO.

GROUP 19.

1. Avery, A., Rome. Elm trees. 99
 2. Beery, E., Sugar Grove. Birch trees. 99
 3. Board of World's Fair Managers, Columbus.
 a Paw-paw, maple, elder, red bud, coffee nut, locust, plum, haw, black thorn, sour-wood, ash, elm, hackberry, sycamore, hickory, birch, beach, oak, chestnut, black willow, aspen, pine. Also polished specimens. 99
 b Native medicinal roots, barks, plants. 108
 c Photos of Ohio trees. 113
 4. Boyne, J., Orwell. Ash trees. 99
 5. Coles, J. A., Columbus. Native woods. 99
 6. Dennis, Dr. A., Amanda. Native woods. 99
 7. Difford, Giles, Orwell. Native woods. 99
 8. Goodrich, S. F., Geneva. Cherry trees. 99
 9. Grover, Marcus, Windsor. Native woods. 99
 10. Hacker, Otto, Painesville. Cherry trees. 99
 11. Hall, Mr., Columbus. Native woods. 99
 12. Hamilton, M., Brunsworth. Oak-tree. 99
 13. Hay, L., Amanda. Persimmon tree. 99
 14. Hess, L., Columbus. Oak trees. 99
 15. Jones, T. H. B., Otway. Native woods. 99
 16. Lincoln, P., Painesville. Native woods. 99
 17. Moody, C. A., Painesville. Native woods. 99
 18. Park, B. A., Painesville. White maple, native woods. 99
 19. Parmley, J. L., Painesville. Native woods. 99
 20. Pegg, Esquire, Columbus. Native woods. 99
 21. Rary, E., Sugar Grove. Section of sweet buckeye. 99
 22. Slyh, Mr., Columbus. Native woods. 99
 23. Stoers & Harrison Co., Painesville. Section of sumach. 99
 24. Van Dervort, J. S., New Antioch. Hickory trees. 99
 25. Wire, S., Painesville. Native woods. 99
 26. Wolf, S., Amanda. Native woods. 99

VIRGINIA.

GROUP 19.

1. Atkins Bros., Marion. Collection of woods. 99
 2. Bedford County. Collection of woods. 99
 3. Drewry, Mrs. Margaret H., Westover. Section of cypress log. 99
 4. Giles County. Collection of woods. 99
 5. Hanover County. Collection of woods. 99
 6. Madison County. Collection of woods. 99
 7. Pugh, L. M., Marion. Section curled maple. 99
 8. Shenandoah County. Collection of woods. 99

DEPARTMENT N.—FORESTRY.

WEST VIRGINIA.

GROUP 19.

1. Board of World's Fair Managers, Charleston.
 - a Commercial timbers. 99
 - b Poplar wheels, shingles, staves and lathes. 100
 - c Table of native woods. 101
 - d Tanbark. 103
2. Giffin, A. G., Buchannon. Panels. 101
3. Hopkins, A. S., Morgantown. Beneficial and injurious insects, with sections showing their work. 113
4. Parkersburg Mill Co., Parkersburg.
 - a Wainscoting, etc. 101
 - b Case, brush and implement handles. 110
5. Parkersburg Veneer & Panel Co., Parkersburg. Panel veneers. 101
6. Price & Co., Clarksburg. Specimens of oak. 99
7. Rumbarger J. L. Lumber Co., Dobbin.
 - a Hardwood boards, planks and trunks. 99
 - b Spruce and hemlock laths and shingles. 100
8. West Virginia & Pittsburg R. R. Co., Weston, W. Va.
 - a Hardwood logs, planks and saplings. 99
 - b Photographs, etc. 113

WISCONSIN.

GROUP 19.

1. Allen, J. P., South Superior. Balm of Gilead. 99
2. Barkham, Mr., Kingville. Sand bar willows. 99
3. Batcheller, N. A., Black River Falls. Native woods. 99
4. Callaghan, J. J., Burlington. Black walnut. 99
5. Calligan, E., Langdale. Silver birch, balsam fir, hemlock, spruce. 99
6. Capen, R. W., Black River Falls. Black oak. 99
7. Chapman, H. S., Dedham. Red spruce. 99
8. Coons, H. B., Potosi. American crab, shellbark hickory, box elder, mulberry. 99

9. Damman, C., New Holstein. Speckled alder, June berry, scarlet thorn, prickly ash. 99
10. Davis, Mrs. H., Irving. White oak, hackberry. 99
11. Duncan, Brewer & Co., Dedham. Aspen. 99
12. Goodyear Lumber Co., Tomah. Yellow Norway pine. 99
13. Greve, H. C., New Holstein. Rough beech, basswood and elm. 99
14. Hayssen, H. H., New Holstein. Basswood, hard maple freaks. 99
15. Hitl, D., New Holstein. Hyslop crab. 99
16. Humke, J., Greenwood. Soft maple. 99
17. Hunt, W. H., Potosi. Black locust. 99
18. Kimball & Clark, Kimball. Black ash, hemlock, black birch. 99
19. Kinan, J., Thienville. Pignut and shell bark hickory. 99
20. Lea, Ingran Lumber Co., Iron River. Red Norway and yellow pine. 99
21. Lewis, G. H., Potosi. River cottonwood. 99
22. Limmer, H., New Holstein. Silver poplar. 99
23. Limmer, I., New Holstein. Butternut hickory. 99
24. Meek, B. J., Black River Falls. Hickory pine. 99
25. Mills, H. B., Black River Falls. White oak. 99
26. Montreal River Lumber Co., Gila. White pine. 99
27. Ostebeih, L., Chilton. Burr, white and black oak, bastard elm. 99
28. Paulson, E., New Holstein. Beech. 99
29. Pauison, J., Charlestown. Black cherry. 99
30. Plega, H., Butternut. Tamarack, yellow birch. 99
31. Regan, D., Chilton. Rock maple. 99
32. Ryan, D., Chilton. Hickory, butternut. 99
33. Sinart, Geo., Butternut. Water and rock elms. 99
34. Smart, H. S., Butternut. Ironwood, basswood. 99
35. Spaulding, D. J., Black River Falls. Cockspur thorn. 99
36. Upham, W. H., Marshfield. White ash, red elm. 99

FOREIGN COUNTRIES.

AUSTRIA.

GROUP 19.

1. Chadt, Joh. E., Winterberg (Bohemia). Works and maps illustrating forest management. 116
2. Mayr, von Melnhof, Freiherr von, Frohnleiten (Stiria). Woodstuff and woodpaste. 109
3. Oplt, Franz, Bakow (Bohemia). Rushes and bast-goods. 105
4. Wolfner & Weiss, Vienna. Seed collections. 113

BELGIUM.

GROUP 19.

1. Van Oye, Alb., & Co., Maldegheem.
 - a Baskets, willowware, etc. 111
 - b Rattan, bamboo and cane work. 112

CANADA.

GROUP 19.

1. Canadian Government, Department of Agriculture, Ottawa. Native woods and photos of trees. 113
2. Finch Wood Preservative Co., Toronto. Paving blocks. 99
3. Gaetz, Leonard, Red Deer, N. W. T.
 - a Sections of trees. 99
 - b Flooring. 100
4. Gordon, Alexander, Pembroke, Ont. Birch knot. 113
5. McLaughlan, H. P., Lower Perth, N. B. Peculiar forest growth. 113
6. North-West Territories, Regina. Forest products. 99
7. Nova Scotia Wood Pulp Paper Co., Mill Village. Wood pulp. 109
8. Provincial Government of British Columbia, Victoria. Forest products. 99
9. Provincial Government of Ontario, Toronto. Forest products. 99
10. Provincial Government of Prince Edward Island, Charlottetown. Specimens of wood. 99
11. Provincial Government of Quebec, Quebec. Forest products. 99
12. Shearer, Jas., Montreal. Hardwood doors. 100

CAPE OF GOOD HOPE.

GROUP 19.

1. Cape of Good Hope.
 - a Knysna woods and canes; Basuto land curios. 10
 - b Bark. 103
 - c Gum. 106
 - d Buchu leaves and aloes. 108

GERMANY.

GROUP 19.

1. Burberg Bros., Mettmann. Samples of tannin. 103

2. Flesch, Jr., Frankfort-on-the-Main. Tannin extracts. 103
3. Freund, A. H., & Co., Coburg. Basket ware. 111
4. Merkel, Wm., Raschau (Saxony). Cork and cork products. 104
5. Moritz, A., Berlin. Willow splitting machine. 111
6. Mueller, Th., Schoenbeck-on-the-Elbe. The pith of plants. 104
7. Schleber, Georg, Reichenbach -V. Dyed objects. 103

GREAT BRITAIN.

GROUP 19.

1. Bombay-Burmah Trading Corporation Ltd., London. Samples of teak flooring and wood paving; railway wheel blocks and keys; samples of fabrics dyed with cutch. 103

ITALY.

GROUP 19.

1. Dammann & Co., San Giovanni a Teduccio. Licorice. 108
2. De Rosa, Vincengo, Atri. Licorice. 108
3. Prinetti, Stucchi & Co., Milan. Corks. 104

JAPAN.

GROUP 19.

1. Akita-ken, Akita. Specimens of wood. 99
2. Awaji Bamboo Works, Hyogo. Bamboo. 112
3. Chôhei Tanaka, Kagawa. Baskets. 111
4. Daisuke Nagata, Kobe. Bamboo ware. 112
- 4a. Daisuke Nagata, Hyogo. Furniture. 572
5. Dept. of Agriculture and Commerce, Japan.
 - a Timber and planks. 99
 - b Worked timber and wood for furniture. 100
 - c Ornamental and fossil woods. 101
 - d Barks and galls for tanning and dyeing. 103
 - e Vegetable wax and resins. 106
 - f Miscellaneous forest products. 108
 - g Wood pulp for paper. 109
 - h Baskets. 111
 - i Bamboo canes and bamboos. 112
 - j Illustration of forest growth. 113
 - k Maps, plans and illustrations of forest management; illustrations of woods and flowers. 116
 - l Illustration of lumber transportation. 117
6. Eisaburô Yamakuchi, Aichi. Specimens of wood. 99
7. Eizaburô Yamakuchi, Aichi. Bamboo and specimens of wood. 112
8. Funaho Village Agricultural Union, Chiba. Bamboo. 112
9. Fusajirô Yoshita, Kagawa. Baskets. 111

FOREIGN COUNTRIES.

- | | |
|--|---|
| <p>10. Gibeï Matsuoka, Hyōgo. Ajiro works of bamboo. 112</p> <p>11. Heimon Nagakura, Shizuoka. Sago palm basket. 111</p> <p>12. Ichibei Kawagishi, Kumamoto. Bamboo work. 112</p> <p>13. Kahei Yamanaka, Ōsaka. Traveling cases. 112</p> <p>14. Kambei Takagi, Tōkyō. Specimens of wood. 99</p> <p>15. Kensō Hasegawa, Fukushima. Lacquers and finished specimens. 106</p> <p>16. Kuhei Yoda, Hyōgo. Bamboo ware. 112</p> <p>17. Kumazō Akiyama, Kagawa. Baskets. 111</p> <p>18. Kyubei Tsutsura, Ōsaka. Traveling cases. 112</p> <p>19. Kyūgorō Yomashita, Kagawa. Baskets. 111</p> <p>20. Motarō Awamura, Ōsaka. Umbrella handles. 110</p> <p>21. Naotarō Nakajima, Kumamoto. Bamboo and roots. 112</p> <p>22. Rishichi Ōkubo, Kagawa. Baskets. 111</p> <p>23. Rishin Mabuchi, Kagawa. Baskets. 111</p> <p>24. Satarō Yuno, Ōsaka. Tooth picks. 110</p> <p>25. Shigechiki Kawaguchi, Miyasaki. Bamboo. 112</p> <p>26. Shikuo Yoshita, Kōbe. Bamboo ware. 112</p> <p>27. Shizuoka Paper Mill, Shizuoka. Writing paper and envelopes. 104</p> <p>28. Shirō Katayama, Kagawa. Baskets. 111</p> <p>29. Shōbei Itō, Kyōto. Bamboo. 112</p> <p>30. Shogorō Kimura, Shiga. Rattan work. 112</p> <p>31. Shōgorō Ōhashi, Kōbe. Baskets. 111</p> <p>32. Shōtarō Tamari, Kagoshima. Bamboo. 112</p> <p>33. Shōzaburō Osada, Miyasaki. Bamboo. 112</p> <p>34. Simpei Mori, Kumamoto. Bamboo board. 112</p> <p>35. Sosuke Ueki, Chiba. Bamboo umbrella handles. 112</p> <p>36. Tadayuki Nakamura, Kumamoto. Bamboo. 112</p> | <p>37. Tokutarō Okuma, Saitama. Bamboo. 112</p> <p>39. Tomeji Kamiya, Fukuoka. Baskets. 111</p> <p>40. Tomekichi Honda, Ōsaka. Wooden water pipe. 110</p> <p>41. Tomotarō Yokoi, Kagawa. Baskets. 111</p> <p>42. Toshichi Nishimura, Shiga. Rattan work. 112</p> <p>43. Traders' Union, Hyōgo. Traveling cases, baskets. 111</p> <p>44. Tsunekichi Nishi, Kumamoto. Bamboo root. 112</p> <p>45. Tsunesaburō Ogawa, Hyōgo. Bamboo ware. 112</p> <p>46. Umajirō Kumihashi, Kagawa. Baskets. 111</p> <p>47. Usaburō Koyama, Aomori. Bamboo ware. 111</p> <p>48. Y Roku Satō, Aomori. Lacquer. 106</p> <p>49. Yasaburō Nishiwaka, Kagawa. Baskets. 111</p> <p>50. Yasuhachi Noguchi, Kagawa. Bamboo cups. 111</p> |
|--|---|

SWEDEN.

GROUP 19.

- | | |
|--|--|
| <p>1. Bratt, Chas. E., Stockholm. Casks. 110</p> <p>2. Gustafsfors Fabrikers Aktiebolag, Gustafsfors.</p> <p style="padding-left: 20px;">a Wood pulp. 109</p> <p style="padding-left: 20px;">b Wrapping paper. 110</p> <p>3. Gysinge Aktiebolag, Gysinge. Cellulose. 109</p> <p>4. Henriksson, J., Mellerud, Elfsborg. Forest seed. 114</p> <p>5. Laxa Brucks Aktiebolag, Laxa. Wood pulp, cellulose. 109</p> <p>6. Malmö Trämassefabriks Aktiebolag, Malmö. Wood pulp. 109</p> <p>7. Paykull, Gustaf, Knifsta. Pine and spruce seed. 114</p> <p>8. Posse, Knut, Berggvara. Fir and spruce seed. 114</p> <p>9. Skanska Atlikfabriken, Perstorp. Charcoal, tar, wood-tar oil. 117</p> | |
|--|--|

DEPARTMENT C.—LIVE STOCK.

AMPLE preparations have been made to care for the Live Stock interests at the Exposition. A premium list appropriating \$150,000 has been prepared, and a number of the Live Stock associations have offered supplemental premiums for respective breeds, ranging from \$200 to \$10,000 each. Reports from foreign countries render certain that the exhibit will bring together the most remarkable collection of pure bred animals ever witnessed in the history of expositions. The exhibit will also comprise specimens of wild animals, song birds, and birds of plumage from this country and from abroad.

The Live Stock exhibit will open in June, with a kennel show, lasting six days, followed in August, September and October by the exhibition of horses, cattle, sheep, swine, poultry, pigeons, etc. While care will be taken to secure specimens of the best established breeds, the rules are sufficiently liberal to permit the entry of animals from every part of the world which have such characteristics as to make them objects of interest to visitors. The liberal money premiums, besides the medals and diplomas to be awarded, have stimulated a widespread interest in this exhibit.

The Live Stock Pavilion is located at the rear of the colonnade which connects the Machinery Hall with the Agricultural Building, the large arch in the center of the colonnade being the main approach to this pavilion. The extreme measurements of the pavilion are 300x440 feet, it, therefore, covers an area of over three acres. The general arrangement of this magnificent pavilion is the same as the ever famous Colosseum at Rome, the architecture of the former being Romanesque and the latter purely classic of the Doric order. There is very little ornament on this building save the balustrade which tops the cornice. The building is constructed of frame work covered with staff. The contracts were let for the entire building at \$50,000. The seating capacity is 6,000. The center is used as a large arena for the purpose of parading live stock, and on certain days when not used for this purpose, will be used by the North-American Turner-Bund for exhibitions. Under the amphitheatre are the offices of the different bureaus pertaining to the department and also offices for the different live stock associations, the National Grange, the National Farmers' Alliance, etc.

This department was placed under the charge of Chief Buchanan, of the Department of Agriculture, and under his supervision the work has been carried on all over the world, but principally in the United States. Horses and sheep will be shown from France, horses from Russia, sheep from Australia, and all kinds of live stock from Canada and nearly every state in the United States.

The superintendent of the kennel division is James Mortimer, of Long Island; superintendent of sheep division, A. M. Garland, of Illinois; superintendent of cattle division, J. B. Dinsmore, of Nebraska. Superintendents of the horse, poultry and swine divisions are yet to be appointed.

The Kennel Exhibit begins June 12th and lasts six days.

The exhibit of horses and cattle begins August 21st and lasts one month.

The exhibit of sheep and swine begins September 25th and lasts till October 14th.

The exhibit of poultry and fat stock begins October 16th and lasts till October 28th.

EVANS=SNIDER=BUEL COMPANY

CAPITAL, \$200,000.

SURPLUS, \$141,000.

LIVE STOCK COMMISSION AGENTS

CHICAGO, ST. LOUIS, KANSAS CITY.

Consignments Solicited. Correspondence Invited. Market Reports Free.

A. G. EVANS, PRESIDENT.

C. A. SNIDER, TREASURER.

M. P. BUEL, VICE-PRESIDENT.

A. T. ATWATER, SECRETARY.

ANDY J. SNIDER.

T. J. DANIEL, JR.

G. M. WALDEN.

... ADDRESS US AT ...

UNION STOCK YARDS, Chicago, Ill.

KANSAS CITY STOCK YARDS, Kansas City, Mo.

NATIONAL STOCK YARDS, Illinois.

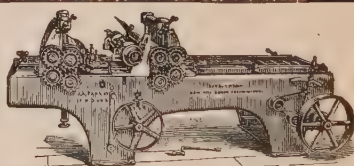
ORIGINATORS,
INTRODUCERS AND
CONSTRUCTORS.



J. A. FAY & EGAN CO.
OFFICES: N. W. COR. FRONT AND JOHN STS.,
CINCINNATI, OHIO, U. S. A.

OWNERS AND OPERATORS OF
THE EGAN CO.
ESTABLISHED 1873.
J. A. FAY & CO.
ESTABLISHED 1895.

SPACE,
MACHINERY
HALL,
SEC. 13,
F. 38 TO
41.



WOOD-WORKING MACHINERY FOR ANY PURPOSE.

Our Line Comprises Nearly 1,000 Different Machines.

OUR PRODUCTIONS ARE ALWAYS THE LATEST FOR HIGH EFFICIENCY, ECONOMIC OUTPUTS AND THE VERY BEST RESULTS OF AMERICAN INGENUITY.

Our Plant is the largest in the World of its kind, having a working surface of 11 acres.

Our medals number over 350, awarded by the various Expositions abroad and in this country. "GRAND PRIX" Universal Exposition, Paris, 1889. Decoration, "Legion of Honor," conferred by the French Government.



CLASSIFICATION.

DEPARTMENT C.

LIVE STOCK—DOMESTIC AND WILD ANIMALS.

GROUP 27.

HORSES, ASSES, MULES.

- Class 193. Draft horses—all breeds.
- Class 194. Coach horses.
- Class 195. Trotting horses.
- Class 196. Thoroughbred horses.
- Class 197. Saddle horses.
- Class 198. Hunters.
- Class 199. Educated and trick horses.
- Class 200. Ponies.
- Class 201. Jacks and jennets.
- Class 202. Mules.
- Class 203. Literature and statistics; copies of the constitution and by-laws of national horse breeding associations.

GROUP 28.

CATTLE.

- Class 204. Beef.
- Class 205. Dairy.
- Class 206. For general purposes.
- Class 207. Oxen.
- Class 208. Crosses of cattle with buffalo, etc.
- Class 209. Collection of brands and registers of brands and marks, with implements of herding, tying, etc.

GROUP 29.

SHEEP.

- Class 210. Fine woolled sheep.
- Class 211. Combing woolled sheep.
- Class 212. Middle woolled sheep.
- Class 213. Sheep for mutton.

GROUP 30.

GOATS, LLAMA, CAMELS AND OTHER DOMESTICATED ANIMALS.

- Class 214. Goats, camels, elephants, llama, vicugna, alpaca, guanaco, yaks, etc.

GROUP 31.

SWINE.

- Class 215. Swine of all varieties.
- Class 216. Methods of raising, feeding, fattening, breeding, killing and packing. Statistics, literature and history of the industry.

GROUP 32.

DOGS.

- Class 217. Hunting, watch, coach, pet and all other varieties, of dogs.
- Class 218. Dog collars, chains, muzzles, etc.
- Class 219. Breeding kennels, bench shows, registers, standards and literature.

GROUP 33.

CATS, FERRETS, RABBITS, ETC.

- Class 220. Breeds of the domestic cat; illustrations of uses and value.
- Class 221. Ferrets and their uses.
- Class 222. Rabbits, and methods of raising and hunting, and of their destruction as pests.

GROUP 34.

POULTRY AND BIRDS.

- Class 223. The breeds of poultry and pigeons, and all domesticated birds. Poultry Shows. Standards of perfection, literature.
- Class 224. Fowls and capons.

- Class 225. Ducks and geese. Swans.
- Class 226. Turkeys.
- Class 227. Pigeons and pigeon lofts. Homing pigeons.
- Class 228. Guinea fowls, pea-fowls, ostriches, etc.
- Class 229. Pheasants and other ornamental birds. Pet birds in general. Cages.
- Class 230. Birds of all countries, alive and as stuffed specimens. Taxidermy. Methods and appliances.
- Class 231. Poultry and bird houses, and their fittings. Incubators and brooders.
- Class 232. Poultry and eggs for market. Feathers, down, quills, and all products. Methods of and appliances for packing and transportation. Prices. Statistics, etc.

GROUP 35.

INSECTS AND INSECT PRODUCTS.

- Class 233. Leeches, leech culture; methods and statistic.
- Class 234. Care of the cochineal bugs. Gathering and primary preparation of cochineal.
- Class 235. Other insects, useful or injurious. Apparatus for the destruction of injurious insects; insecticides and methods of application.

GROUP 36.

WILD ANIMALS.

- Class 236. Animals of all countries, alive and as stuffed specimens.
- Class 237. Methods of collecting, housing, caging, etc. Protection of wild animals and game.
- Class 238. Game preserves, copies of game laws and regulations.

[NOTE.—Inasmuch as the Live Stock exhibit does not begin until June 1st, as stated in a preceding page, no directory of exhibitors appears in this edition.]

